



Saturday, July 01, 2023  
Time of Issue: 0800 hours IST  
(MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### **Advance of Southwest Monsoon :**

- ❖ Conditions are favourable for further advance of Southwest Monsoon into remaining parts of the country (i.e., remaining parts of Rajasthan and Haryana and Punjab) during next 2 days.

#### **Weather Forecast and Warning:**

**Northwest India:** Light/moderate scattered to fairly widespread rainfall very likely to continue over the region during next 24 hours. Isolated **Heavy rainfall** very likely over Uttarakhand on 03<sup>rd</sup> & 04<sup>th</sup> July; West Rajasthan, East Uttar Pradesh and East Rajasthan on 01<sup>st</sup> July.

**Central India:** Light/moderate fairly widespread to widespread rainfall with isolated **heavy falls very likely** over Madhya Pradesh during next 24 hours.

**West India:** Light/moderate fairly widespread to widespread rainfall with **isolated Heavy to very Heavy rainfall** is very likely over Konkan & Goa and Ghat areas of Madhya Maharashtra during next 4-5 days and Gujarat State during next 24 hours.

**East & adjoining Northeast India:** Fairly widespread to widespread light/moderate rainfall with isolated **Heavy to Very Heavy falls** very likely over Sub-Himalayan West Bengal & Sikkim, Bihar, Assam & Meghalaya, Arunachal Pradesh during next 5 days. Isolated **heavy rainfall** also likely over Gangetic West Bengal, Odisha and Jharkhand on 03<sup>rd</sup> & 5<sup>th</sup> July.

**South India:** Light/moderate scattered to widespread rainfall very likely over Kerala & Mahe, Coastal & South Interior Karnataka during next 5 days. **Isolated heavy rainfall** also likely over Coastal & South Interior Karnataka and Kerala & Mahe during next 5 days; Tamil Nadu during 02<sup>nd</sup>-05<sup>th</sup> July; Coastal Andhra Pradesh & Rayalaseema during 03<sup>rd</sup>-05<sup>th</sup>

## Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Uttarakhand, East Uttar Pradesh, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Konkan & Goa and Coastal Karnataka; at many places over West Bengal & Sikkim, Assam & Meghalaya, Gujarat Region and Madhya Maharashtra; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, West Uttar Pradesh, Bihar, Madhya Pradesh and Lakshadweep and at isolated places over Punjab, Haryana-Chandigarh-Delhi, West Rajasthan, Chhattisgarh, Odisha, Vidarbha, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall** at isolated places over Meghalaya, Saurashtra & Kutch and Konkan & Goa.
- ❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST to 1730 hours IST of yesterday): **Saurashtra & Kutch:** Kandla-11, New Kandla-8, Mahuva-6, Amreli-3; **Konkan & Goa:** Mumbai (Santacruz)-9; **Meghalaya:** Cherrapunji-7; **Gujarat Region:** Bulsar-4; **West Madhya Pradesh:** Gwalior-4; **East Uttar Pradesh:** Fursatganj-5; **Tripura:** Agartala-4; **Andaman & Nicobar Islands:** Port Blair-5.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, East Uttar Pradesh, Bihar, Odisha, East Rajasthan, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Tripura and Saurashtra & Kutch.
- ❖ **Minimum Temperature Departures (as on 30-06-2023):** Minimum temperatures are **above normal (1.6°C to 3.0°C)** at many places over Odisha; at a few places over Chhattisgarh and Coastal Andhra Pradesh & Yanam. They are **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Madhya Pradesh and Saurashtra & Kutch; **below normal (-1.6°C to -3.0°C)** at most places over Coastal Karnataka; at many places over East Uttar Pradesh; at a few places over Haryana-Chandigarh-Delhi, Rajasthan, Gujarat Region, Gangetic West Bengal, Rayalaseema and Konkan & Goa; at isolated places over Bihar and Tamil Nadu, Puducherry & Karaikal 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 30-06-2023):** Maximum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Odisha, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at most places over Telangana and Kerala & Mahe; at a few places over Gangetic West Bengal, Chhattisgarh, Assam & Meghalaya, North Interior Karnataka, Rayalaseema and Lakshadweep. They are **markedly below normal (-5.1°C or less)** at many places over East Uttar Pradesh; at a few places over Madhya Pradesh and Bihar; at isolated places over Haryana-Chandigarh-Delhi and West Uttar Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at many places over East Rajasthan; at many places over Saurashtra & Kutch; at few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Sub-Himalaya West Bengal & Sikkim; at isolated places over Gujarat Region and Konkan & Goa; **below normal (-1.6°C to -3.0°C)** at many places over Uttarakhand; at isolated places over West Rajasthan, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Madhya Maharashtra and **near normal** over rest parts of the country. Today, **the highest maximum temperature of 40.3°C** is reported at **Madurai (Tamil Nadu)**.

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

- ❖ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 29.4°N/ Long. 70.7°E, Bikaner, Narnaul, Firozpur and Lat. 32.5°N/ Long. 72.5°E.
- ❖ Conditions are favourable for further advance of Southwest Monsoon into remaining parts of the country (i.e., remaining parts of Rajasthan and Haryana and Punjab) during next 2 days.
- ❖ The cyclonic circulation over central parts of south Uttar Pradesh & neighbourhood extending upto 5.8 km above mean sea level persists.
- ❖ The east-west trough now runs from Punjab to Manipur across Haryana, cyclonic circulation over central parts of south Uttar Pradesh, Bihar, Sub-Himalayan West Bengal, Meghalaya & south Assam and extends upto 0.9 km above mean sea level.
- ❖ The trough from the cyclonic circulation over central parts of south Uttar Pradesh & neighbourhood to northeast Arabian Sea across West Madhya Pradesh & Gujarat between 4.5 & 5.8 km above mean sea level persists.
- ❖ The off-shore trough at mean sea level from Maharashtra coast to Kerala coast persists.
- ❖ The cyclonic circulation over southeast Bay of Bengal & neighbourhood between 4.5 & 5.8 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. 74°E to the north of 32°N persists.

### Weather Forecast for next 5 days (Upto 0830 hours IST of 06<sup>th</sup> July, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ❖ **Maximum Temperatures Forecast:**
- ❖ **East India:** Rise in maximum temperatures by 2-4°C very likely during next 4-5 days.
- ❖ No significant change in maximum temperatures likely over rest parts of country during next 5 days.
- ❖ Thunderstorm accompanied with lightning very likely over Northwest India during next 24 hours.

### Weather Outlook for subsequent 2 days (During 06<sup>th</sup> July-08<sup>th</sup> July, 2023)

- ❖ Fairly widespread to widespread light/moderate rainfall with thunderstorm likely to continue over northeast India, central India, Western Himalayan Region along the west coast and islands.
- ❖ Isolated to scattered rainfall over remaining part of the country India.



Table-1

**5 Day Rainfall Forecast**

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

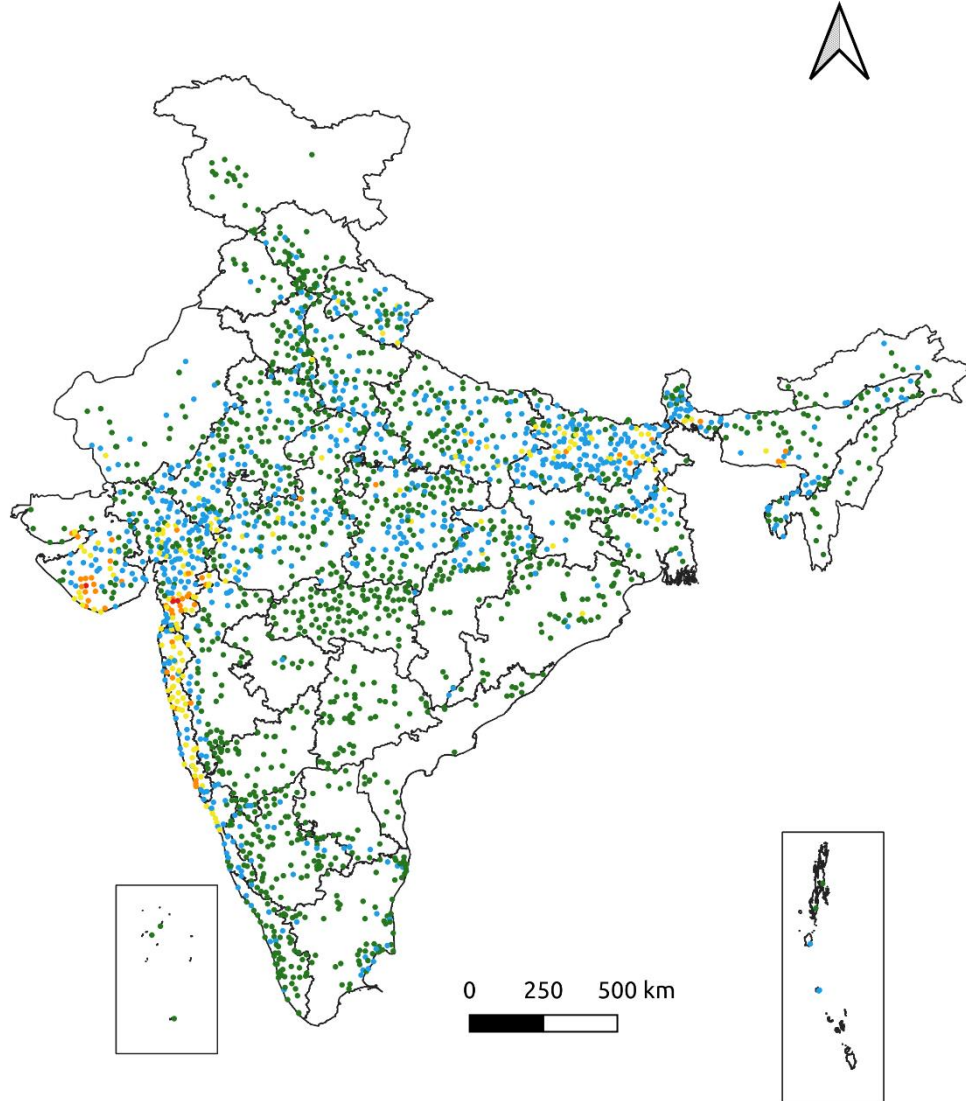
Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

\* 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: Accumulated Rainfall (mm) during past 24 hours



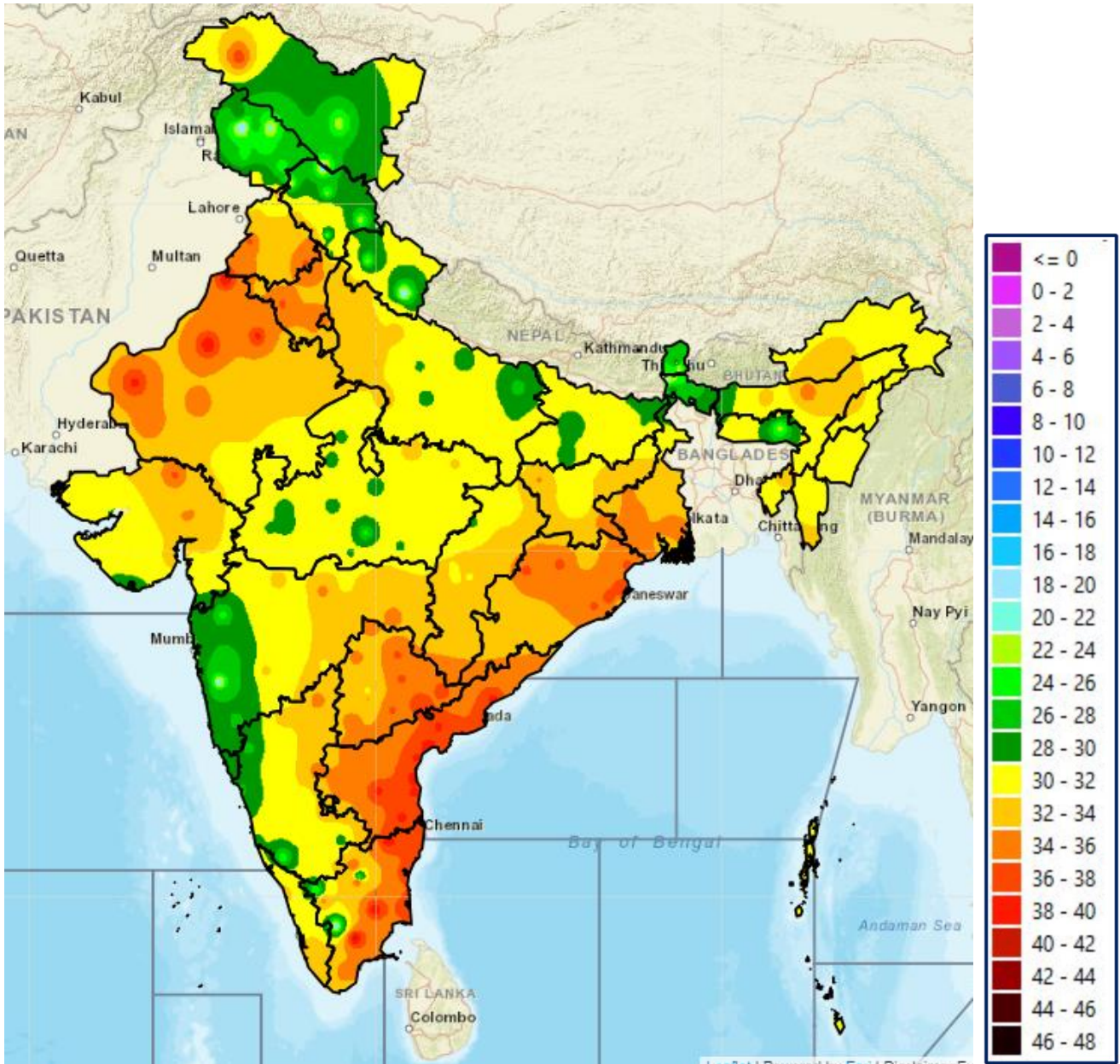
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 29-6-2023 to 0830 IST of 30-6-2023



### Legends

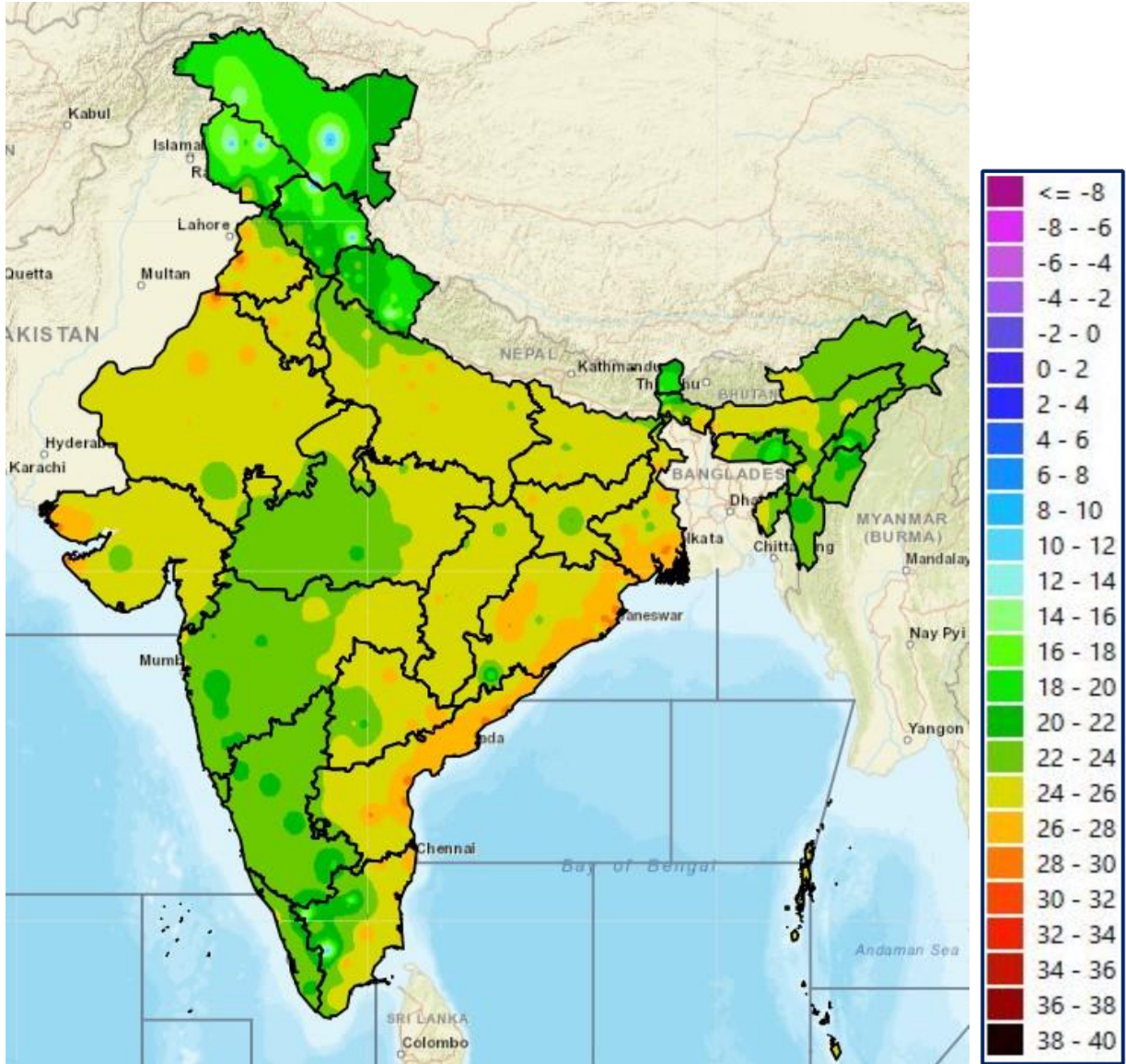
- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall ( $\geq 204.5$  mm)

Fig. 2: Maximum Temperatures Dated 30.06.2023



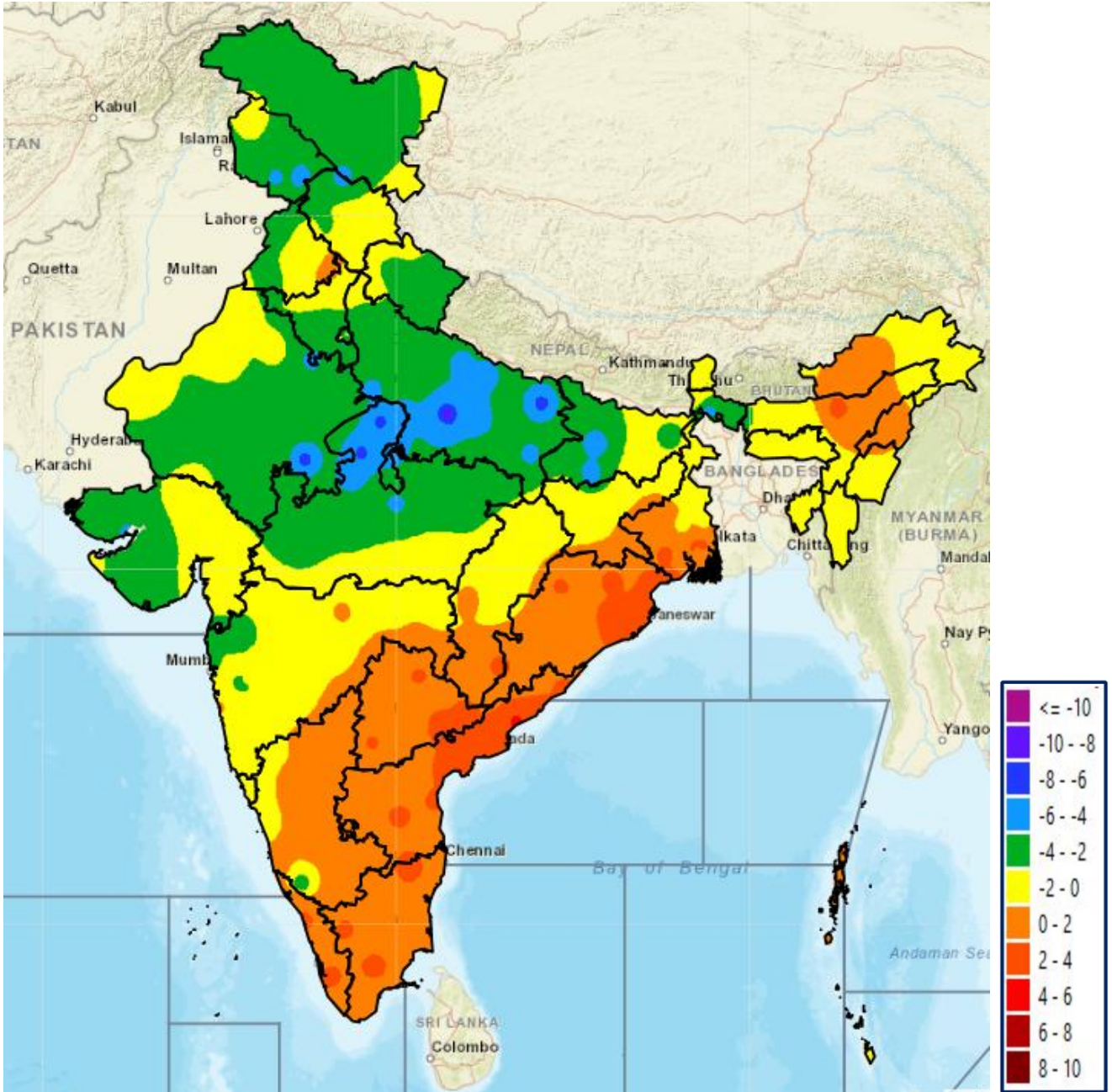
**\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".**  
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day For  
more details kindly visit <https://mausam.imd.gov.in> or contact : 011-2434-4599  
(Service to the Nation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

Fig. 3: Minimum Temperatures Dated 30.06.2023



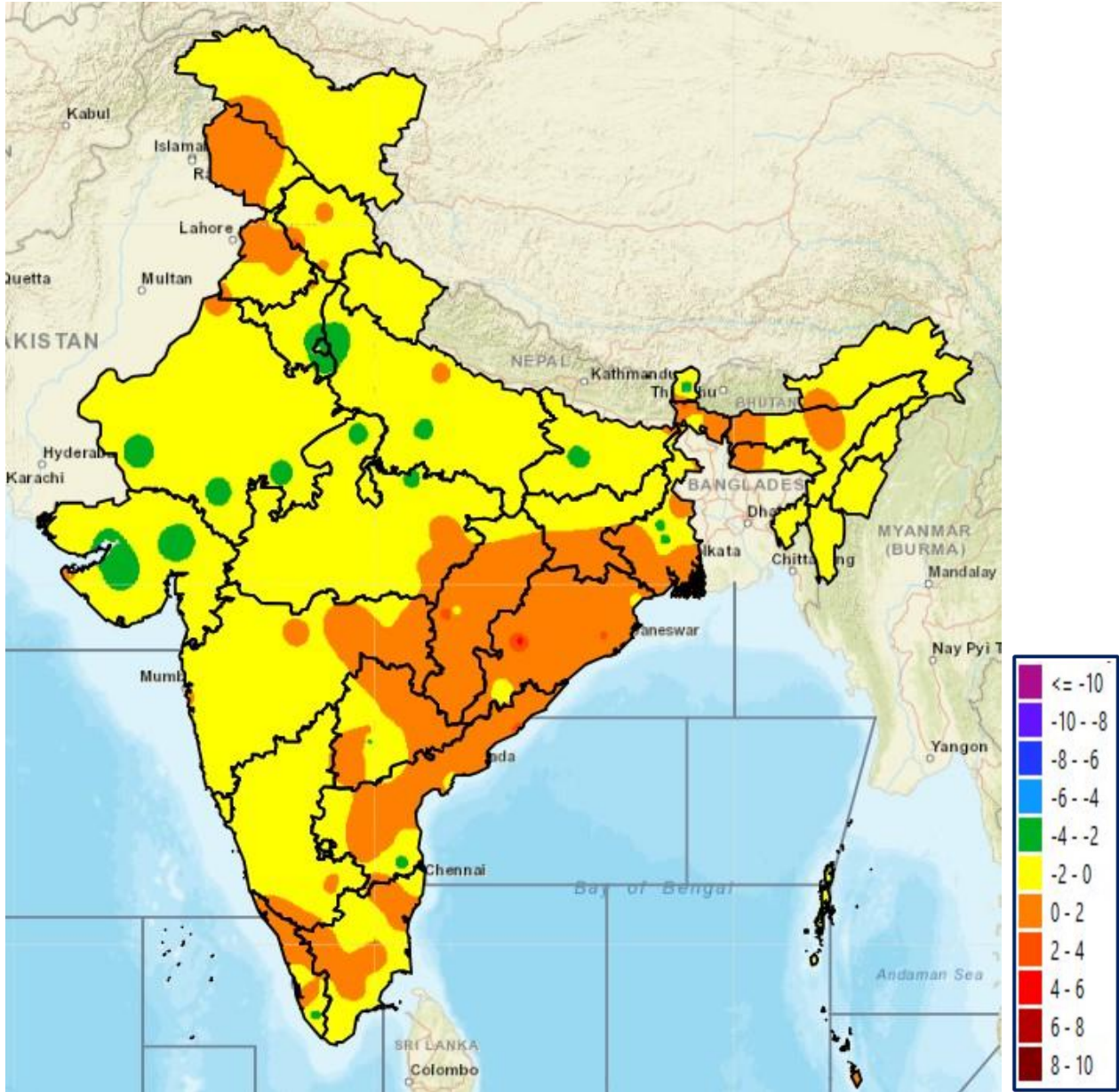
\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".  
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day For  
more details kindly visit <https://mausam.imd.gov.in> or contact : 011-2434-4599  
(Service to the Nation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

Fig. 4: Departure from Normal of Maximum Temperatures Dated 30.06.2023



\* 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  
(Service to the Nation since 1875)

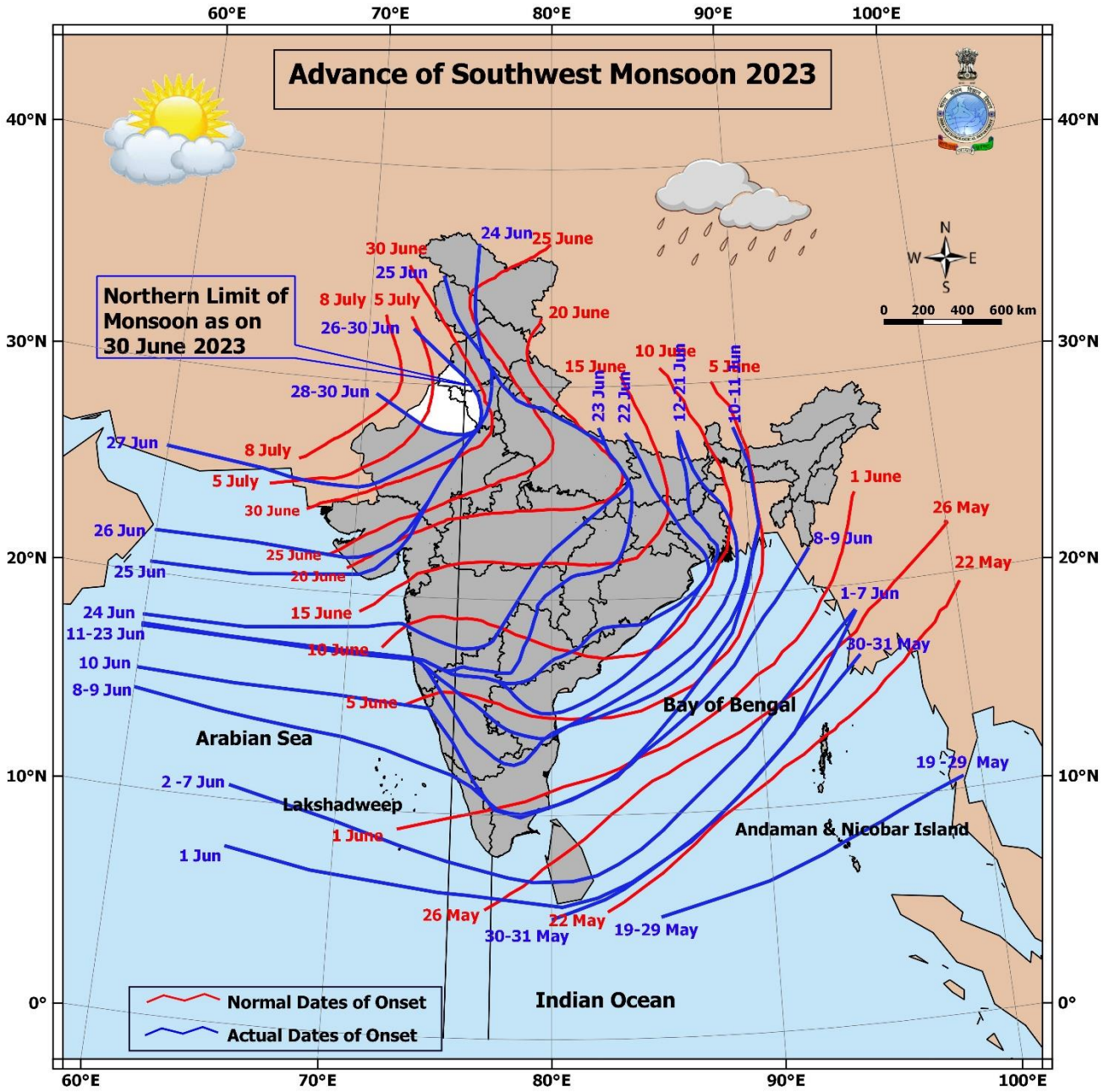
Fig. 5: Departure from Normal of Minimum Temperatures Dated 30.06.2023



\* 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  
(Service to the Nation since 1875)



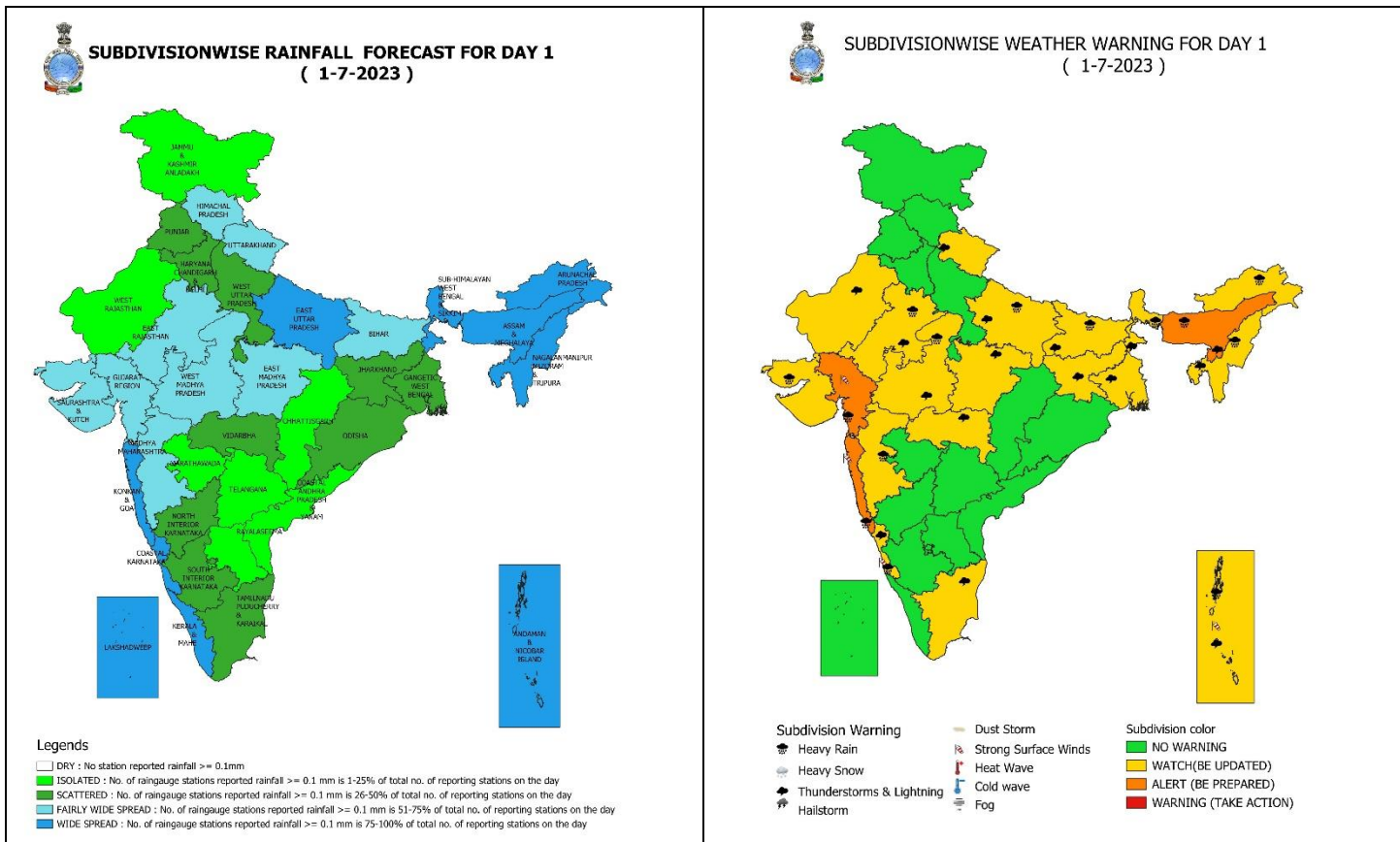
Fig. 6: Advance of Southwest Monsoon



\* 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)



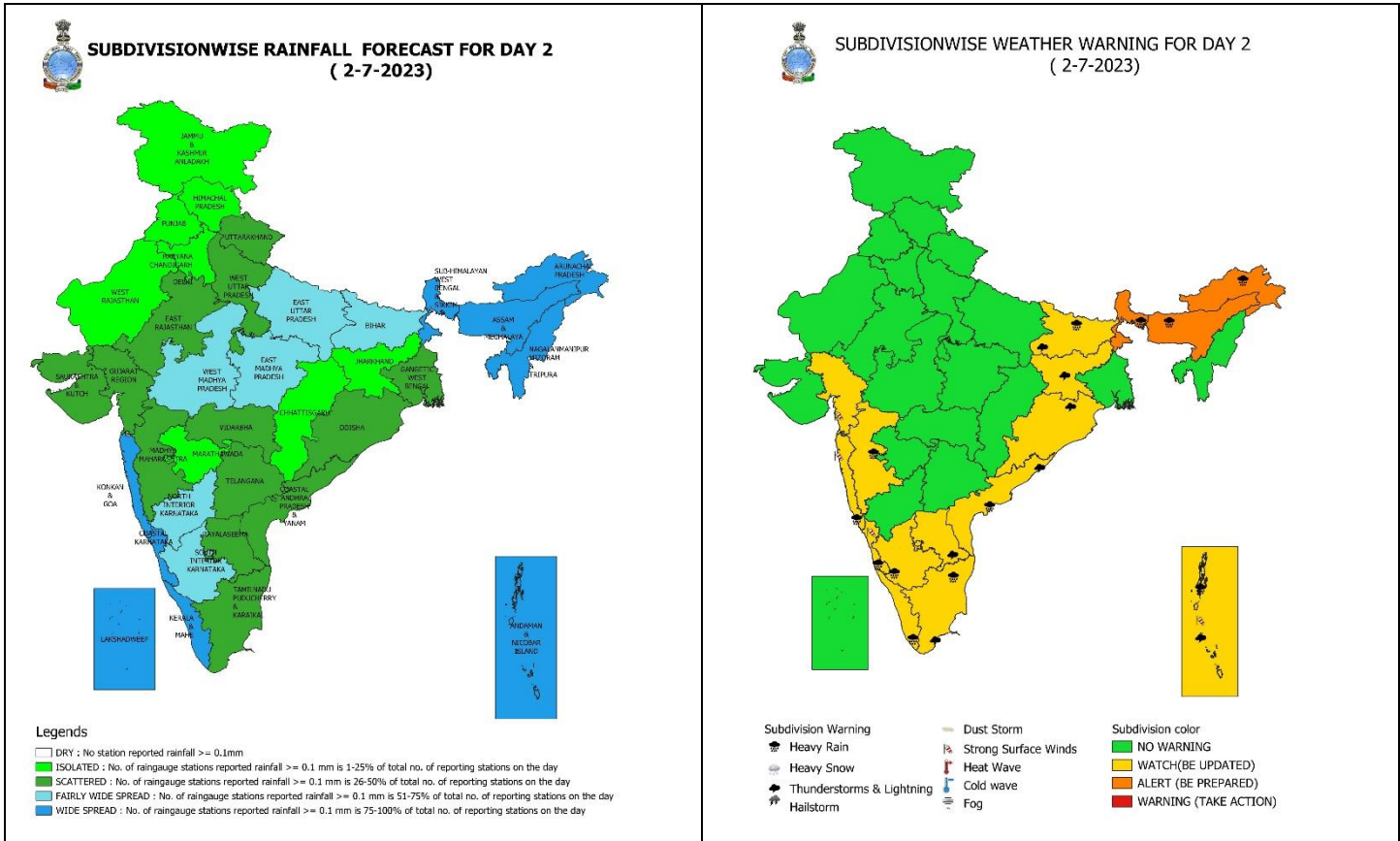
**01 July (Day 1):** ♦ **Heavy to very heavy rainfall** very likely at isolated places over Assam & Meghalaya and Gujarat Region, Konkan & Goa and **heavy rainfall** at isolated places over Coastal Karnataka, ghat areas of Madhya Maharashtra, West Madhya Pradesh, East Uttar Pradesh, East Rajasthan, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Bihar, Saurashtra & Kutch, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Jharkhand, Bihar, East Rajasthan, Madhya Pradesh, Vidarbha, East Uttar Pradesh, Uttarakhand, Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka.

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

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

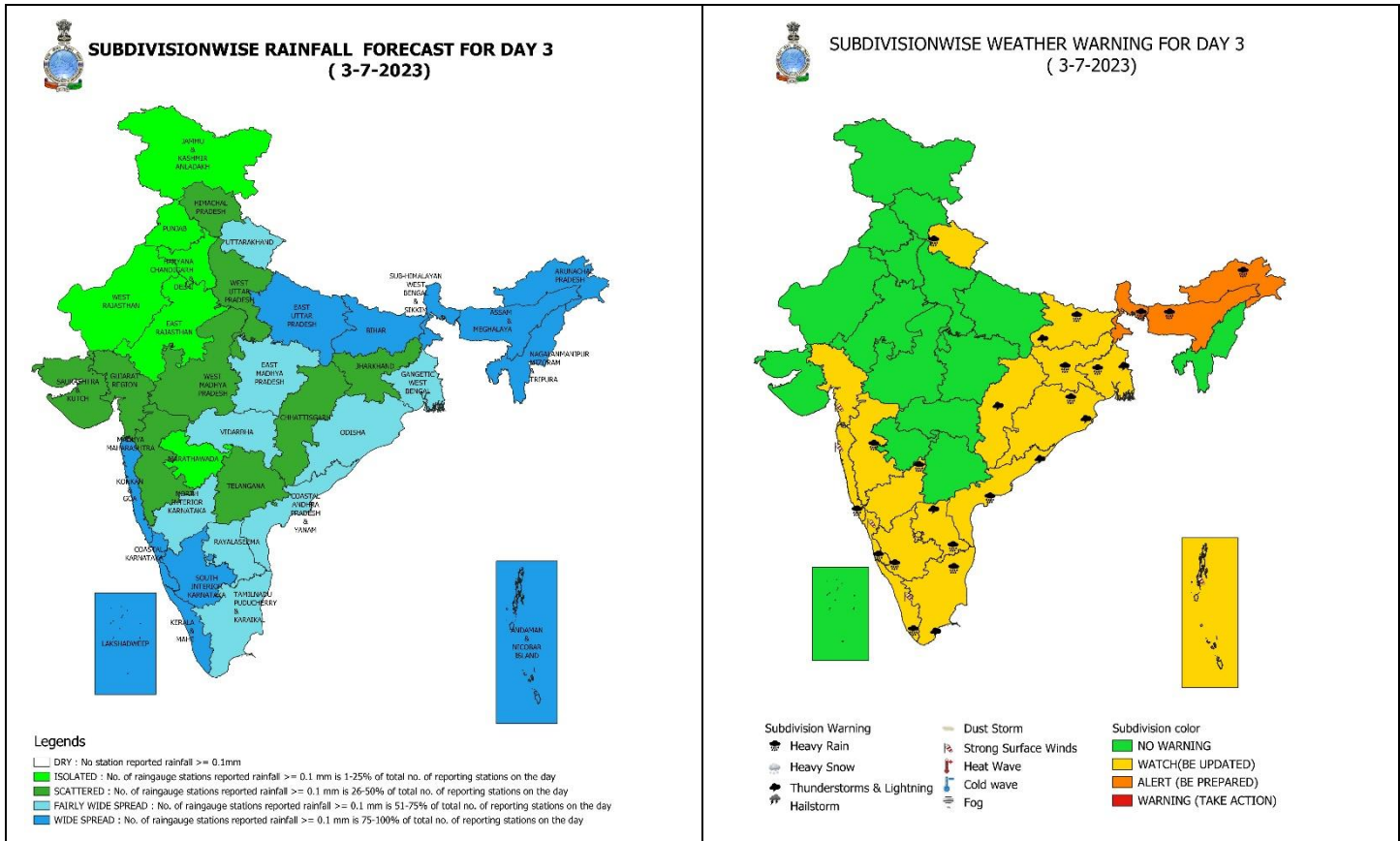
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day For more details kindly visit <https://mausam.imd.gov.in> or contact : 011-2434-4599 (Service to the Nation since 1875)



**02 July (Day 2):** ♦ **Heavy to very heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and **heavy rainfall** at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Karnataka, South Interior Karnataka, Konkan & Goa, ghat areas of Madhya Maharashtra, Bihar and Andaman & Nicobar Islands.

♦ **Thunderstorm with lightning** very likely at isolated places over Jharkhand, Bihar, Odisha, Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over Westcentral & Southwest and adjoining parts of Eastcentral Arabian Sea. **Squally weather speed reaching 40-45 kmph gusting to 50 kmph** likely along & off Kerala-Karnataka-Maharashtra-south Gujarat coasts, Gulf of Mannar, Lakshadweep area, south Bay of Bengal off Sri-Lanka coast, along & off Tamil Nadu, Puducherry & Karaikal-south Andhra Pradesh coasts and Andaman Sea. Fishermen are advised not to venture into these areas.



**03 July (Day 3):** ♦ **Heavy to very heavy rainfall** likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Karnataka, South Interior Karnataka, Konkan & Goa, ghat areas of Madhya Maharashtra, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya and **heavy rainfall** at isolated places over North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Uttarakhand, Gangetic West Bengal, Odisha, Jharkhand.

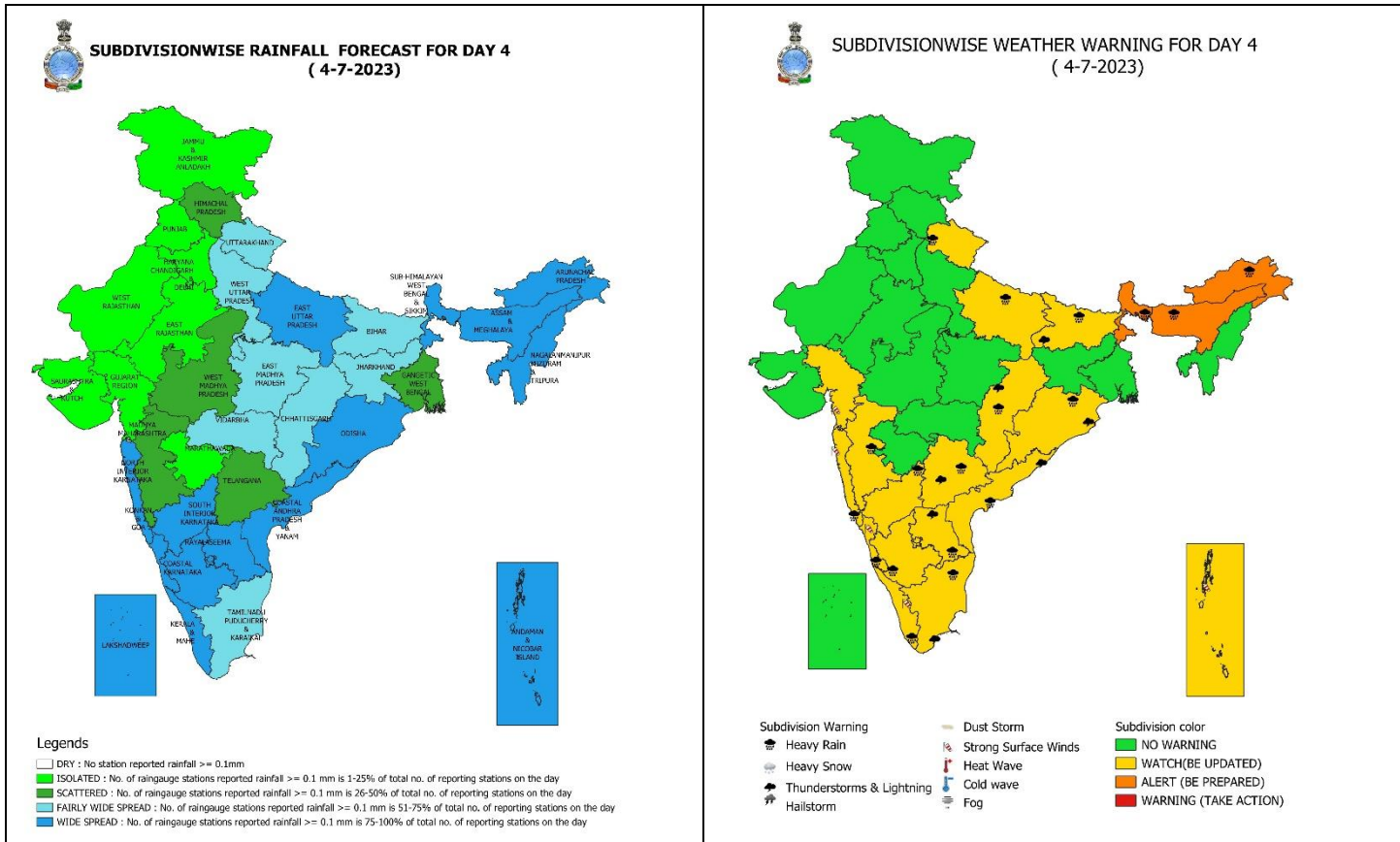
♦ **Thunderstorm with lightning** likely at isolated places over Bihar, Odisha, Chhattisgarh, Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema.

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

\* 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)



**04 July (Day 4):** ♦ **Heavy to very heavy rainfall** likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Karnataka, South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Konkan & Goa, ghat areas of Madhya Maharashtra, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and **heavy rainfall** at isolated places over North Interior Karnataka, Telangana, Rayalaseema, Chhattisgarh, Uttarakhand, East Uttar Pradesh, Odisha, Bihar.

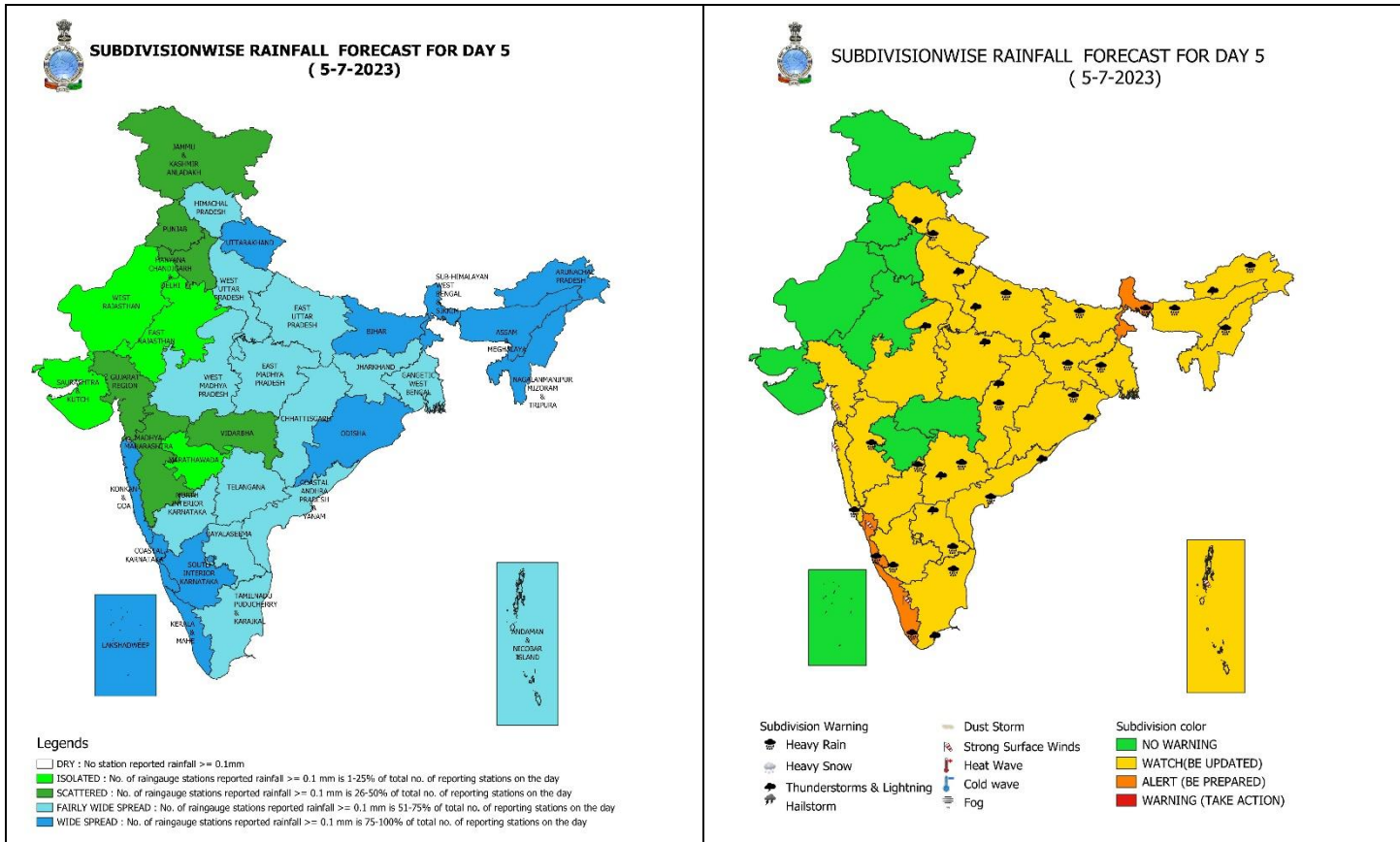
♦ **Thunderstorm with lightning** likely at isolated places over Bihar, Odisha, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana.

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

\* 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)



**05 July (Day 5):** ♦ **Heavy to very heavy rainfall** likely at isolated places over Kerala & Mahe, Coastal & South Interior Karnataka, Konkan & Goa, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and **heavy rainfall** at isolated places over North Interior Karnataka, Rayalaseema, Chhattisgarh, Uttarakhand, East Uttar Pradesh, Odisha, Jharkhand, Gangetic West Bengal, Bihar, Tamil Nadu, Puducherry & Karaikal, ghat areas of Madhya Maharashtra, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam,.

♦ **Thunderstorm with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Odisha, Madhya Pradesh, Chhattisgarh, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Arunachal Pradesh, Rayalaseema and Telangana.

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

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

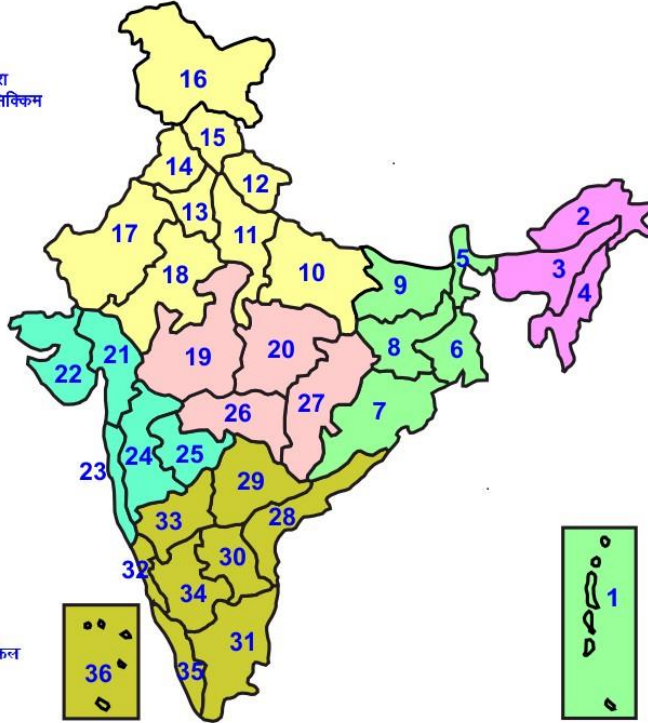
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day For more details kindly visit <https://mausam.imd.gov.in> or contact : 011-2434-4599

(Service to the Nation since 1875)



## LEGENDS

- 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. 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".

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  $4.5^{\circ}\text{C}$  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 < 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  $\leq 4^{\circ}\text{C}$  ( 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)