



Monday, June 26, 2023
Time of Issue: 0830 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Advance of Southwest Monsoon

- ❖ The Northern Limit of Monsoon (NLM) passes through Lat. 20.5°N/ Long. 55°E, Lat. 20.5°N/ Long. 60°E, Lat. 20.5°N/ Long. 65°E, Veraval, Vallabh Vidyanagar, Udaipur, Narnaul, Ambala, Katra and Lat. 35.0°N/ Long. 74°E.
- ❖ Conditions are favourable for further advance of Southwest Monsoon into some more parts of Gujarat, Rajasthan, Haryana, Punjab and remaining parts of Jammu and Kashmir during next 2 days.

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

East & adjoining Northeast India:

- ❖ Fairly widespread to widespread light/moderate rainfall with isolated thunderstorm & lightning very likely to continue over the region during next 5 days.
- ❖ Isolated **Heavy to Very Heavy falls** very likely over Odisha on 26th; over Assam & Meghalaya on 28th & 29th; over Arunachal Pradesh on 29th June.
- ❖ Isolated **heavy rainfall** also likely over parts of East India during next 24 hours and over northeast India during next 05 days.

Northwest India:

- ❖ Light/moderate fairly widespread to widespread rainfall with isolated thunderstorm & lightning very likely over Western Himalayan Region during 26th-28th; and over the plains of northwest India (except west Rajasthan) during 26th-28th June.
- ❖ Isolated **Heavy to Very Heavy rainfall with Extremely Heavy Falls** very likely over East Rajasthan on 28th June, heavy to very heavy rainfall on 26th, 27th & 29th and heavy rainfall on 25th June.
- ❖ Isolated **heavy/heavy to very heavy rainfall** very likely over Uttarakhand during 26th to 29th; over West Uttar Pradesh & Himachal Pradesh on 26th June. Isolated **heavy rainfall** over many parts of northwest India during next 24 hours.

Central India:

- ❖ Light/moderate fairly widespread to widespread rainfall with isolated **heavy falls**, thunderstorm & lightning over the region (Madhya Pradesh, Chhattisgarh & Vidarbha) during next 5 days.
- ❖ Isolated **extremely heavy rainfall** very likely over Chhattisgarh on 26th; East Madhya Pradesh on 26th & 27th; West Madhya Pradesh on 27th & 28th and over Vidarbha on 27th June.
- ❖ Isolated **heavy to very heavy rainfall** very likely over West Madhya Pradesh on 26th & 29th; over Vidarbha on 26th June.

South India:

- ❖ Light/moderate scattered to fairly widespread rainfall during next 5 days and with isolated thunderstorm & lightning very likely over the region during next 24 hours. **Isolated heavy to very heavy rainfall** also likely over Kerala & Mahe on 27th June. **Isolated heavy rainfall** also likely over Coastal Karnataka during 26th to 29th June.

West India:

- ❖ Light/moderate fairly widespread to widespread rainfall during next 5 days. **Isolated Heavy to very Heavy** rainfall is likely over Konkan & Goa and Ghat areas of Madhya Maharashtra during 26th to 29th June.
- ❖ Light/moderate fairly widespread to widespread rainfall over Gujarat Region and Saurashtra & Kutch during next 5 days. **Isolated Heavy rainfall/heavy rainfall** also likely over Gujarat State during 26th-29th June.

Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Konkan & Goa, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at many places over Uttarakhand, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Odisha, Gangetic West Bengal, Madhya Maharashtra, Marathwada and Interior Karnataka; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Saurashtra & Kutch, Arunachal Pradesh and Rayalaseema and at isolated places over Punjab, West Rajasthan, Vidarbha, Sub-Himalaya West Bengal & Sikkim, Jharkhand, Assam & Meghalaya, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall** at isolated places over Himachal Pradesh and Odisha.
- ❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST to 1730 hours IST of yesterday): Dharmasala-9; Sundargarh-8; Tehri-6; Dehradun and Rohtak-5 each; Bareilly, Hirakud, Puri and Mahabaleshwar-4 each; Mumbai (Colaba) and Honavar-3 each; Jammu, Amritsar, Narnaul, Rajkot, Jabalpur, Pendra road, Raipur, Ambikapur, Durg, Bankura, Haldia, Diamond Harbour, Cuttack, Mumbai (Santacruz), Anantapur, Karwar and Mangalore-2 each; Katra, Ambala, Delhi (Ridge & Palam), Batote, Bhaunagar, Guna, Khajuraho, Sambalpur, Tadong, Kailashahar, Keongjargarh, Baripada, Harnai, Panjim, Kurnool, Bajpe, Minicoy island and Udhagamandalam-1 each.
- ❖ **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, Uttarakhand, Punjab, East Uttar Pradesh, West Rajasthan, Odisha, Chhattisgarh, Madhya Pradesh, Saurashtra & Kutch, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Coastal Karnataka.
- ❖ **Minimum Temperature Departures (as on 25-06-2023)**: Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Bihar, Andaman & Nicobar Islands; at a few places over East Madhya Pradesh, Vidarbha, Sub-Himalaya West Bengal & Sikkim; at isolated places over Assam & Meghalaya. They were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over East Uttar Pradesh, East Rajasthan; at isolated places over Haryana-Chandigarh-Delhi, Telangana, Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at many places over Konkan & Goa; at a few places over West Madhya Pradesh; at isolated places over Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of 17.6°C was reported at **Chaparmukh (Assam)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 25-06-2023)**: Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Assam & Meghalaya and at isolated places over Arunachal Pradesh and East Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Bihar; at many places over Sub-Himalaya West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at a few places over Vidarbha, Kerala & Mahe and Andaman & Nicobar Islands and at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Gangetic West Bengal. They were **markedly below normal (-5.1°C or less)** at most places over Uttarakhand and Haryana-Chandigarh-Delhi; at many places over West Uttar Pradesh; at a few places over East Rajasthan; at isolated places over Punjab and West Rajasthan; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Himachal Pradesh, West Madhya Pradesh, Odisha and Chhattisgarh; at isolated places over Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at many places over Coastal Karnataka; at a few places over Saurashtra & Kutch, Telangana and Tamil Nadu, Puducherry & Karaikal; at isolated places over Gujarat Region and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of 43.0°C was reported at **Tikamgarh (East Madhya Pradesh)**.



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 20.5°N/ Long. 55°E, Lat. 20.5°N/ Long. 60°E, Lat. 20.5°N/ Long. 65°E, Veraval, Vallabh Vidyanagar, Udaipur, Narnaul, Ambala, Katra and Lat. 35.0°N/ Long. 74°E.
- ❖ Conditions are favourable for further advance of Southwest Monsoon into some more parts of Gujarat, Rajasthan, Haryana, Punjab and remaining parts of Jammu and Kashmir during next 2 days.
- ❖ The **Low Pressure Area** over Northwest Bay of Bengal & adjoining north Odisha-West Bengal coasts now lies over north Odisha & neighbourhood with associated cyclonic circulation extends upto 7.6 km above mean sea level. It is very likely to move toward north Madhya Pradesh across Jharkhand and north Chhattisgarh during next 2 days.
- ❖ The cyclonic circulation over central parts of south Uttar Pradesh extending upto 1.5 km above mean sea level persists.
- ❖ The east-west trough now runs from northwest Rajasthan to the **Low Pressure Area** over north Odisha & neighbourhood across south Haryana, south Uttar Pradesh, northeast Madhya Pradesh & north Chhattisgarh and extends upto 0.9 km above mean sea level.
- ❖ The off-shore trough at mean sea level along Maharashtra-Karnataka coasts persists.
- ❖ The cyclonic circulation over Northeast Arabian Sea & adjoining Gujarat coast between 3.1 km & 5.8 km above mean sea level persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 01st July, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ❖ **Maximum Temperatures Forecast:**
- ❖ Fall in maximum temperatures by 4-6°C over most parts of Northwest India (except West Rajasthan) during next 4-5 days. No significant change in maximum temperatures likely over rest parts of country during next 5 days.

Weather Outlook for subsequent 2 days (During 01st July-03rd 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.



Weather Warning during next 5 days

26 June (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Chhattisgarh, East Madhya Pradesh; **Heavy to very heavy rainfall very** likely at a few places over Odisha and at isolated places over East Rajasthan, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Vidarbha and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand, Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gujarat state, Marathwada, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, East Rajasthan, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe; **with lightning** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Telangana, Karnataka and Tamil Nadu, Puducherry & Karaikal.

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

27 June (Day 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Vidarbha, Madhya Pradesh; **Heavy to very heavy rainfall very** likely at a few places over Konkan & Goa and at isolated places over East Rajasthan, Gujarat Region, Madhya Maharashtra, Kerala & Mahe and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalaya West Bengal & Sikkim, Odisha, Uttarakhand, West Rajasthan, Saurashtra & Kutch, Chhattisgarh and Coastal Karnataka.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Kerala & Mahe; **with lightning** at isolated places over Jharkhand, Bihar.

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



28 June (Day 3): ♦ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over East Rajasthan, West Madhya Pradesh; **Heavy to very heavy rainfall very likely** at a few places over Konkan & Goa and at isolated places over Assam & Meghalaya, Gujarat Region, Madhya Maharashtra and **heavy rainfall** at isolated places over Arunachal Pradesh, Sub-Himalaya West Bengal & Sikkim, Uttarakhand, West

Rajasthan, East Madhya Pradesh, Saurashtra & Kutch, Vidarbha and Coastal Karnataka.

♦ **Thunderstorm with lightning** at isolated places likely over Bihar and Kerala & Mahe.

♦ **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, southwest & adjoining southeast & westcentral Bay of Bengal off Sri-Lanka coast. Fishermen are advised not to venture into these areas.

29 June (Day 4): ♦ **Heavy to very heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, East Rajasthan, West Madhya Pradesh and Konkan & Goa and **heavy rainfall** at isolated places over Sub-Himalaya West Bengal & Sikkim, Uttar Pradesh, Uttarakhand, West Rajasthan, Gujarat state, Madhya Maharashtra and Coastal Karnataka.

♦ **Thunderstorm with lightning** at isolated places likely over Bihar and Kerala & Mahe.

♦ **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, southwest Bay of Bengal off Sri-Lanka coast. Fishermen are advised not to venture into these areas.

30 June (Day 5): ♦ **Heavy to very heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, East Rajasthan, West Madhya Pradesh and Konkan & Goa and **heavy rainfall** at isolated places over Punjab, Sub-Himalaya West Bengal & Sikkim, Uttar Pradesh, Uttarakhand, West Rajasthan, Gujarat state, Madhya Maharashtra and Coastal Karnataka.

♦ **Thunderstorm with lightning** at isolated places likely over Bihar and Kerala & Mahe.

♦ **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, southwest Bay of Bengal off Sri-Lanka coast. Fishermen are advised not to venture into these areas.



Table-1

5 Day Rainfall Forecast

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

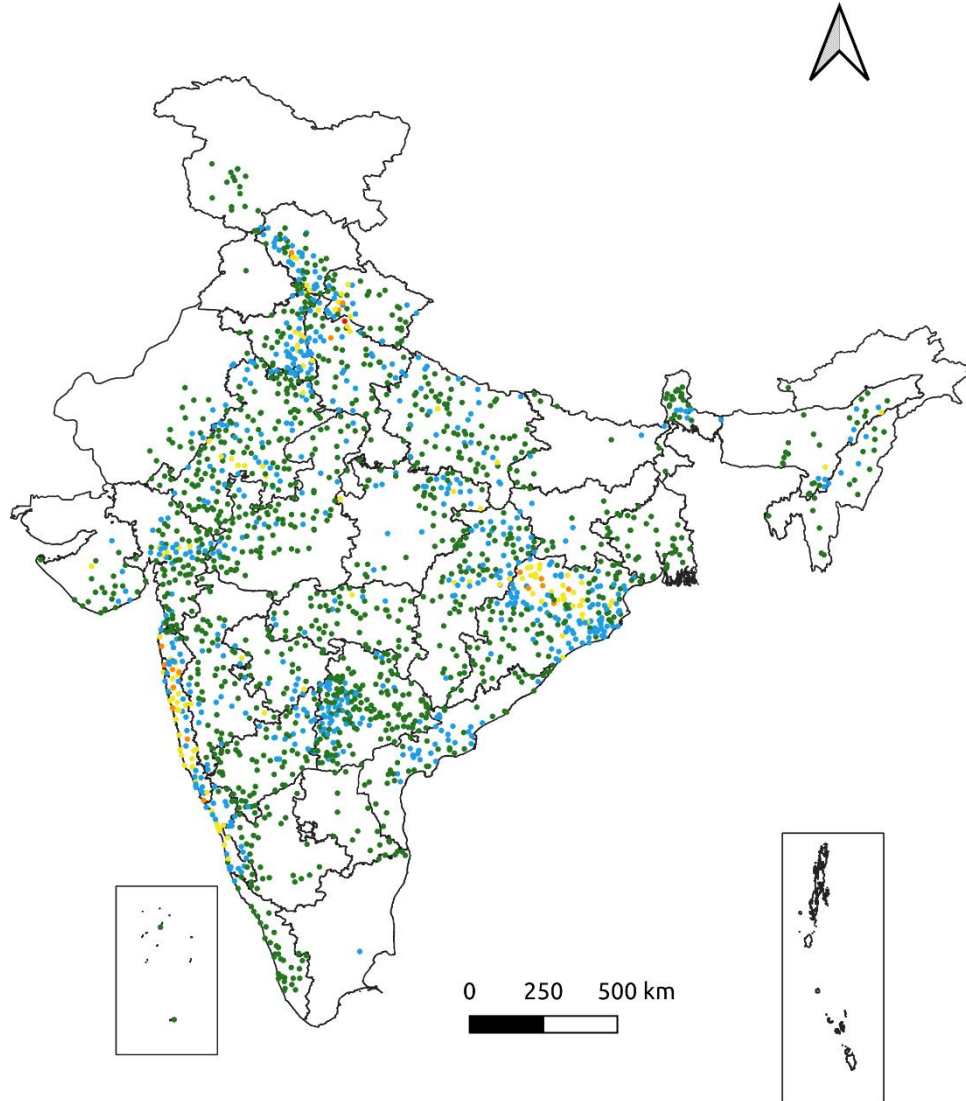
Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

* 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
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



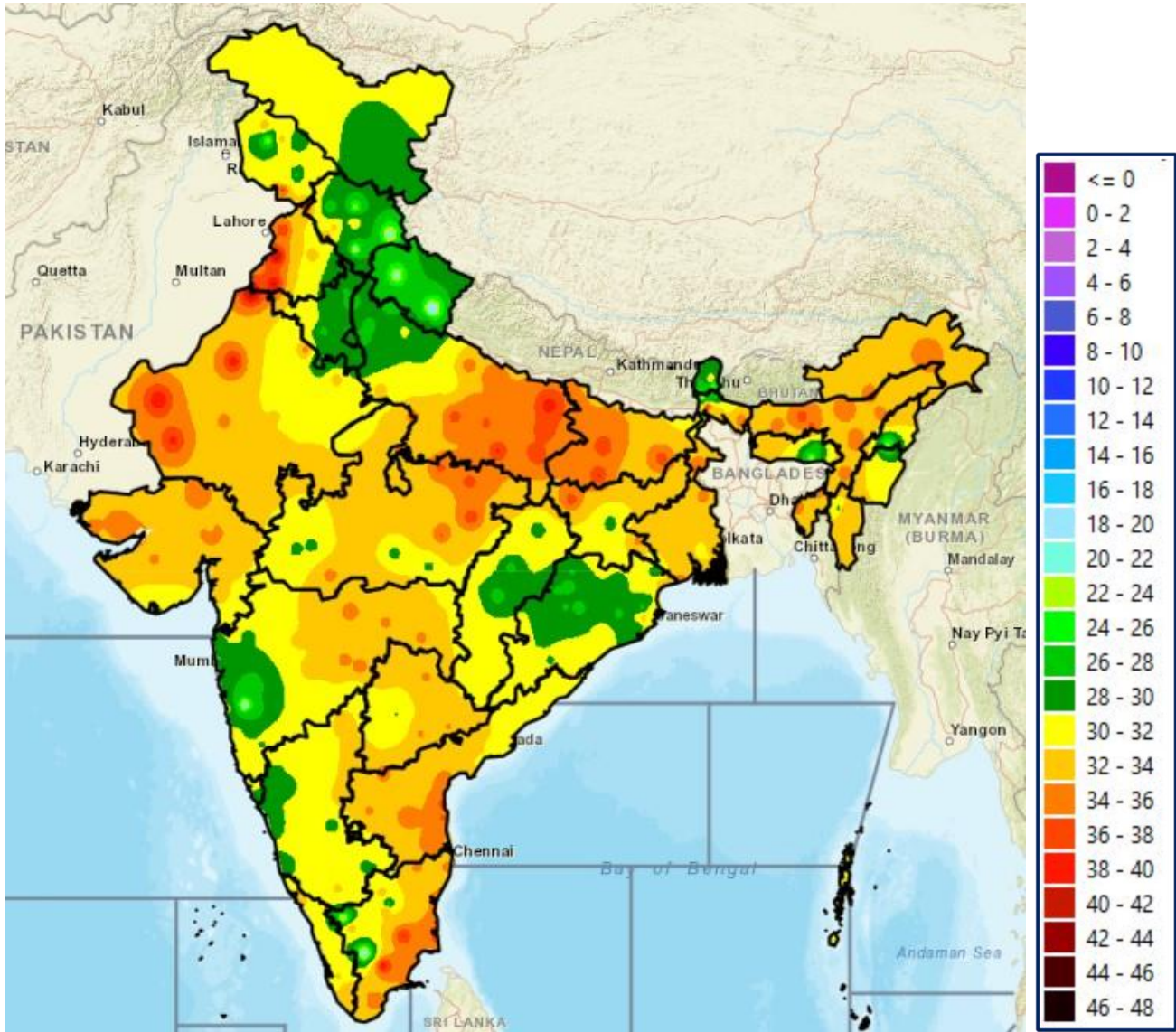
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 24-6-2023 to 0830 IST of 25-6-2023



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 (≥ 204.5 mm)

Fig. 2: Maximum Temperatures Dated 25.06.2023



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Fig. 3: Minimum Temperatures Dated 25.06.2023

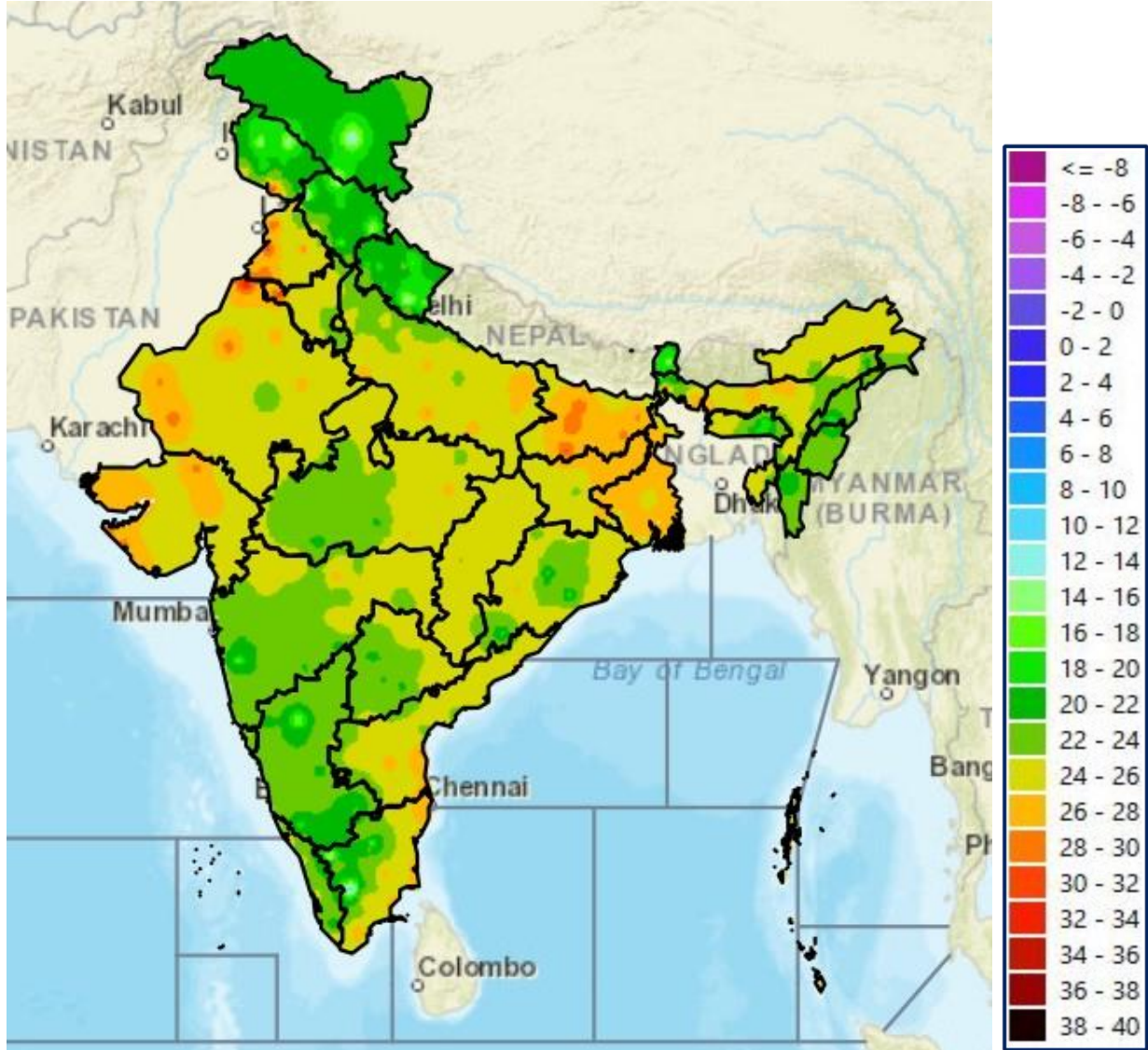
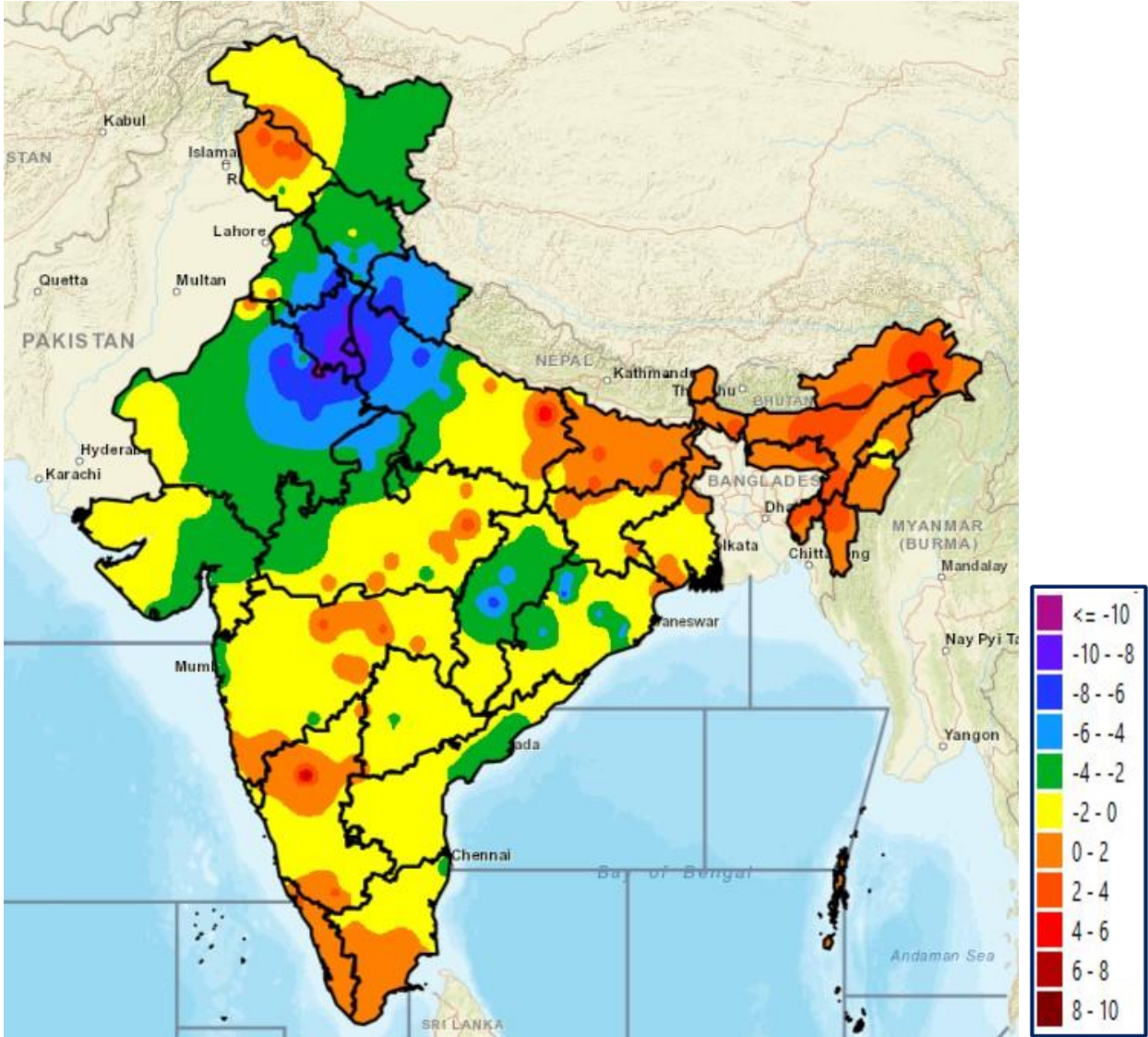


Fig. 4: Departure from Normal of Maximum Temperatures Dated 25.06.2023



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Fig. 5: Departure from Normal of Minimum Temperatures Dated 25.06.2023

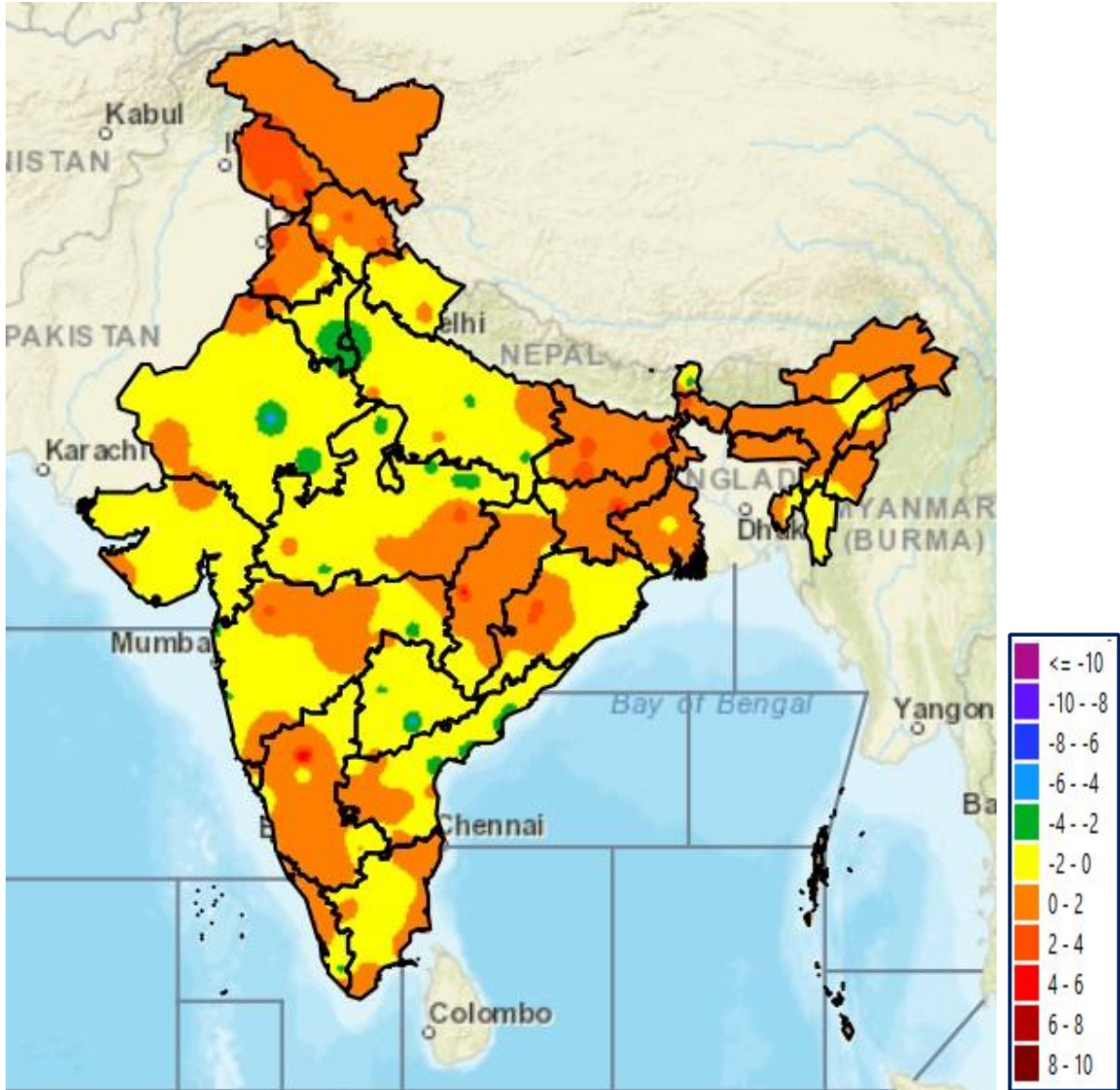
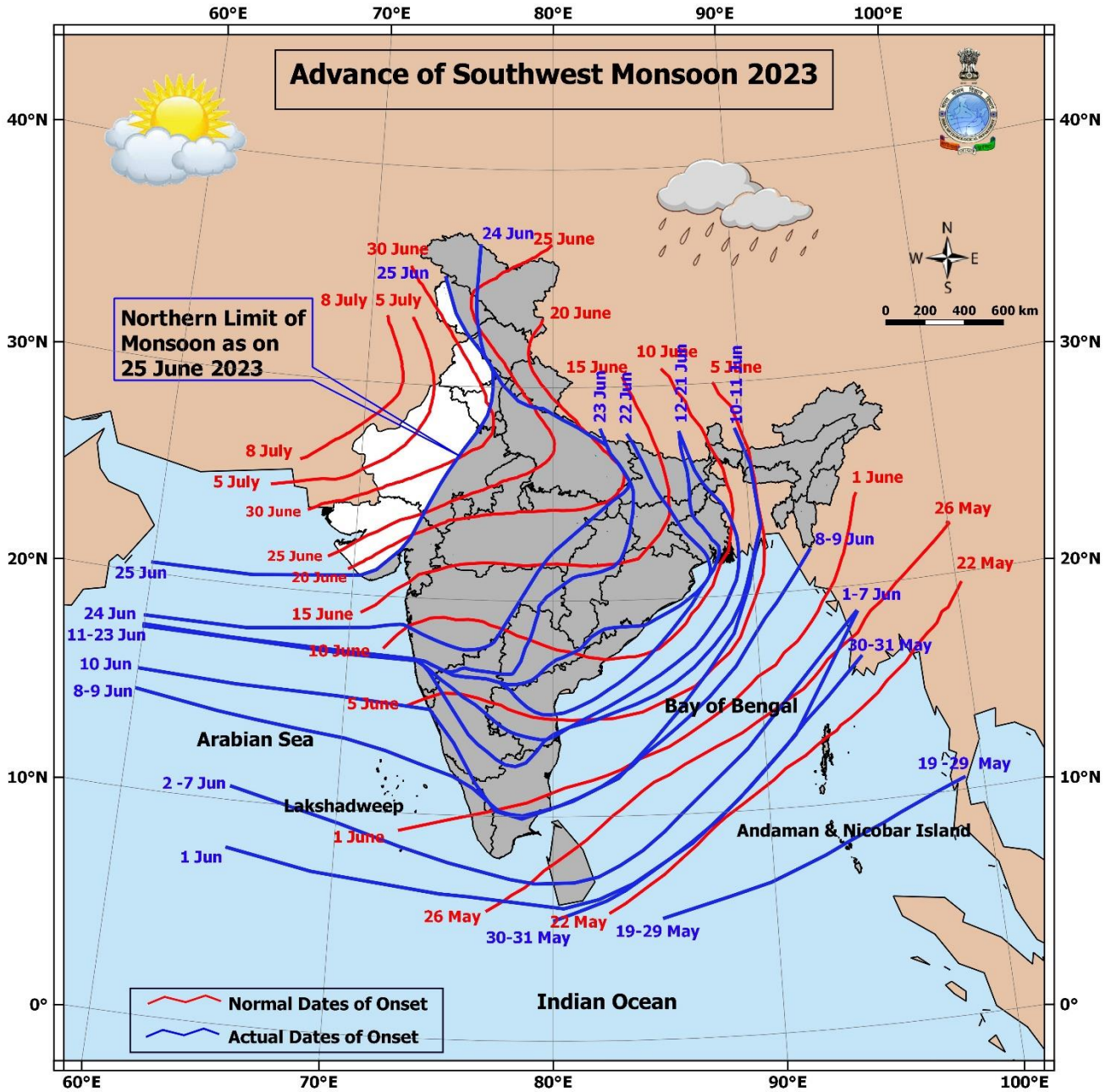
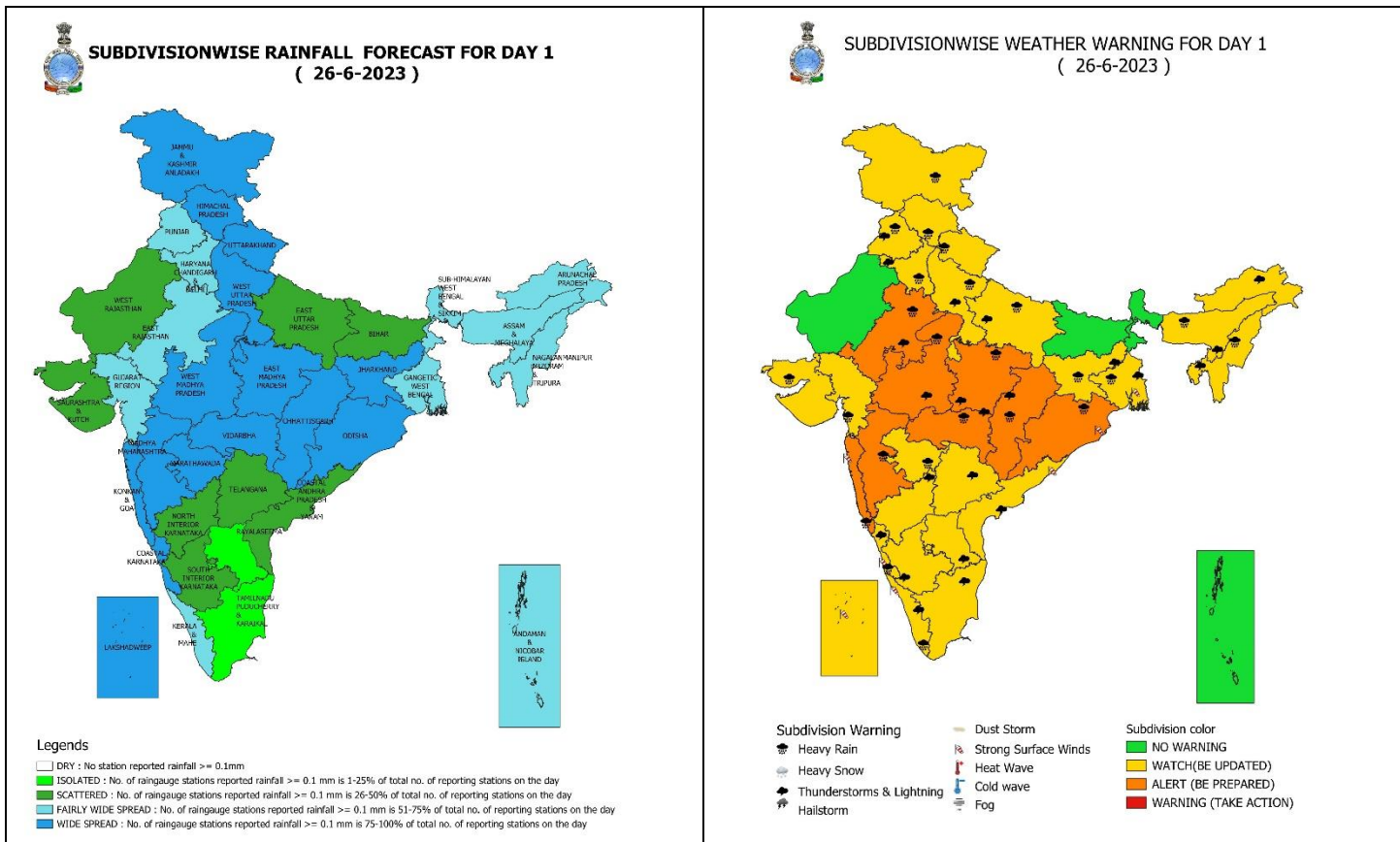


Fig. 6: Advance of Southwest Monsoon

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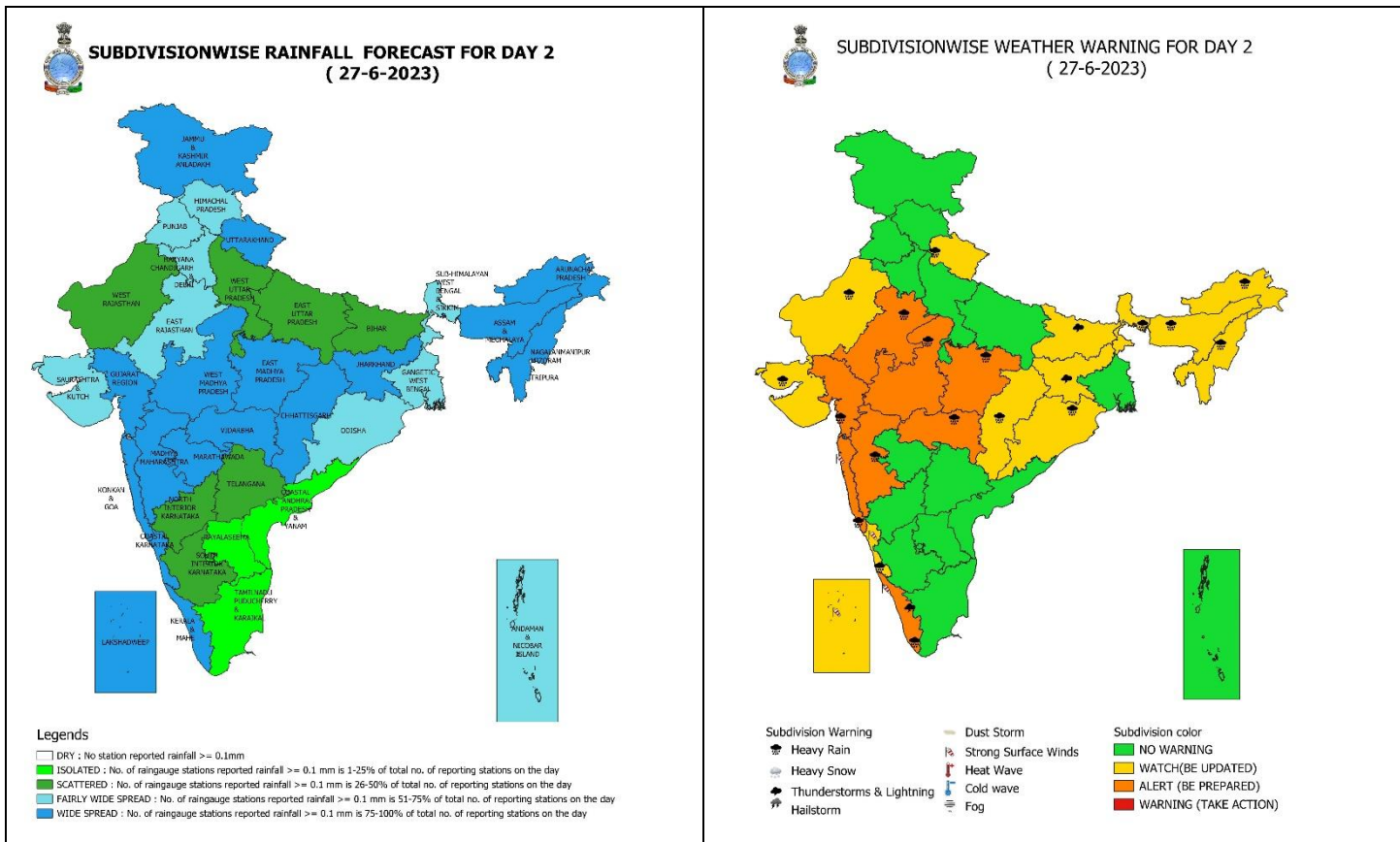




26 June (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Chhattisgarh, East Madhya Pradesh; **Heavy to very heavy rainfall very likely** at a few places over Odisha and at isolated places over East Rajasthan, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Vidarbha and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand, Uttar Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gujarat state, Marathwada, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, East Rajasthan, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe; **with lightning** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Telangana, Karnataka and Tamil Nadu, Puducherry & Karaikal.

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



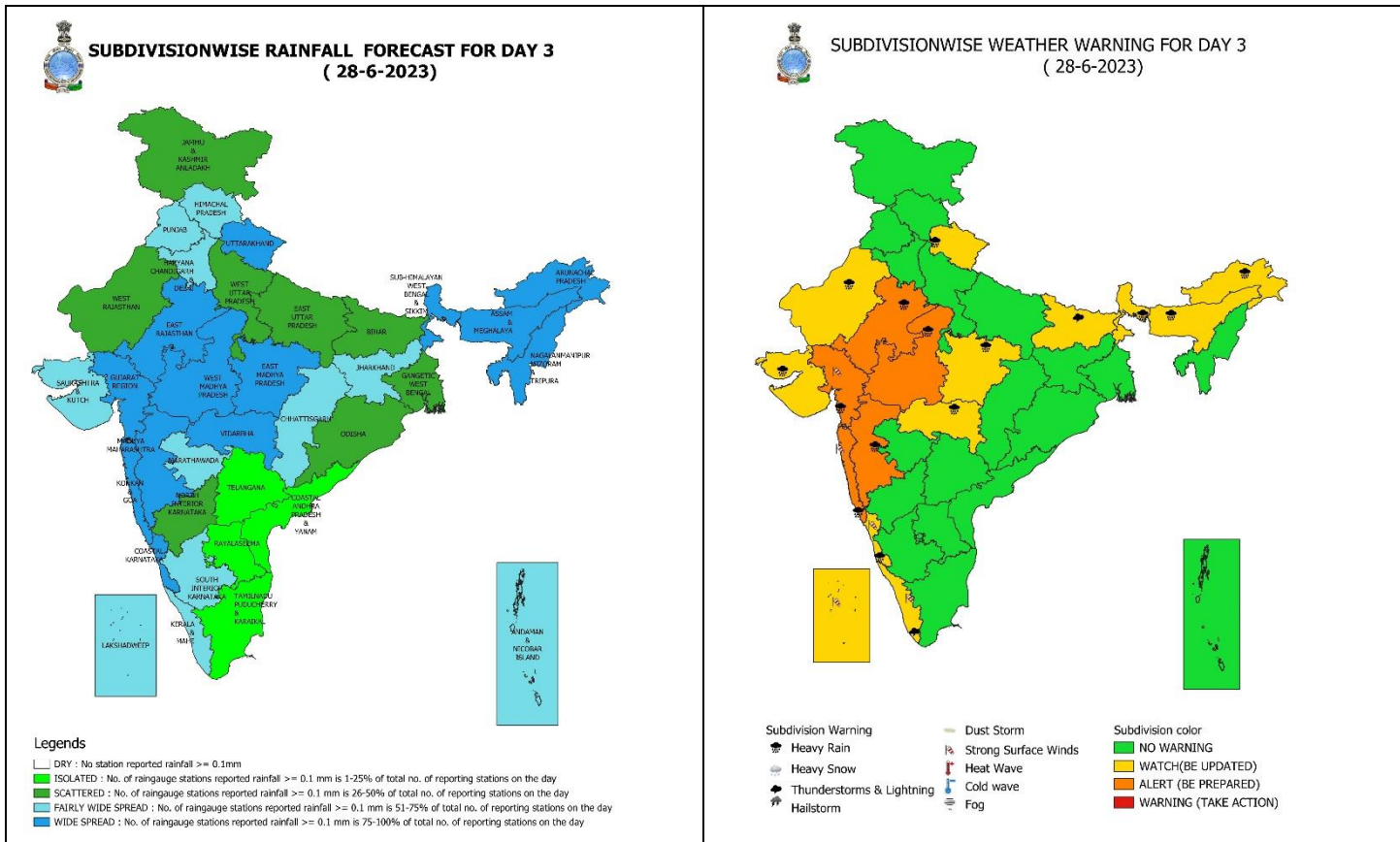
27 June (Day 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Vidarbha, Madhya Pradesh; **Heavy to very heavy rainfall** very likely at a few places over Konkan & Goa and at isolated places over East Rajasthan, Gujarat Region, Madhya Maharashtra, Kerala & Mahe and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalaya West Bengal & Sikkim, Odisha, Uttarakhand, West Rajasthan, Saurashtra & Kutch, Chhattisgarh and Coastal Karnataka.

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28 June (Day 3): ♦ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over East Rajasthan, West Madhya Pradesh; **Heavy to very heavy rainfall very likely** at a few places over Konkan & Goa and at isolated places over Assam & Meghalaya, Gujarat Region, Madhya Maharashtra and **heavy rainfall** at isolated places over Arunachal Pradesh, Sub-Himalaya West Bengal & Sikkim, Uttarakhand, West

Rajasthan, East Madhya Pradesh, Saurashtra & Kutch, Vidarbha and Coastal Karnataka.

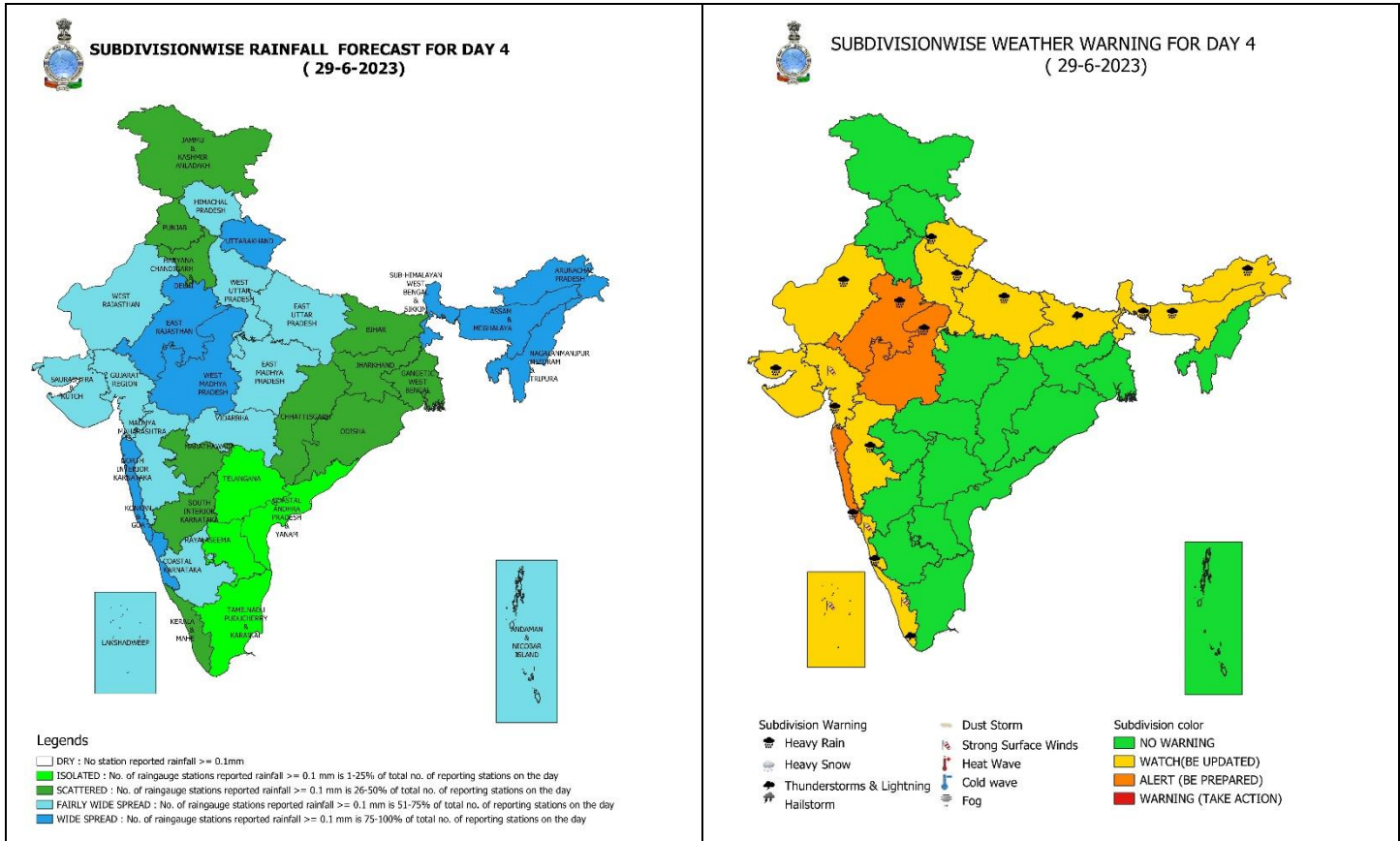
♦ **Thunderstorm with lightning** at isolated places likely over Bihar and Kerala & Mahe.

♦ **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, southwest & adjoining southeast & westcentral Bay of Bengal off Sri-Lanka coast. Fishermen are advised not to venture into these areas.

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29 June (Day 4): ♦ **Heavy to very heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, East Rajasthan, West Madhya Pradesh and Konkan & Goa and **heavy rainfall** at isolated places over Sub-Himalaya West Bengal & Sikkim, Uttar Pradesh, Uttarakhand, West Rajasthan, Gujarat state, Madhya Maharashtra and Coastal Karnataka.

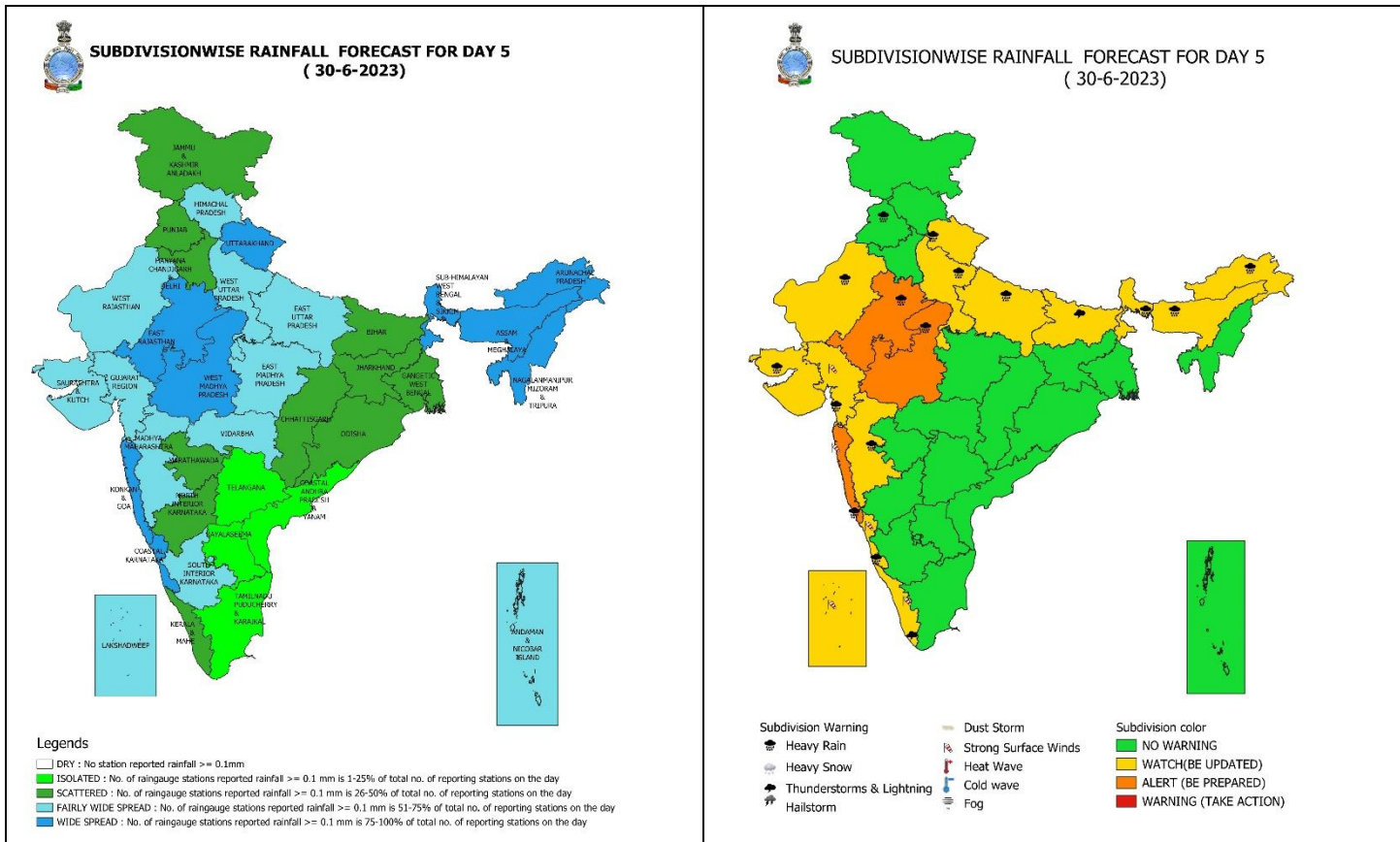
♦ **Thunderstorm with lightning** at isolated places likely over Bihar and Kerala & Mahe.

♦ **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, southwest Bay of Bengal off Sri-Lanka coast. Fishermen are advised not to venture into these areas.

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30 June (Day 5): ♦ **Heavy to very heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, East Rajasthan, West Madhya Pradesh and Konkan & Goa and **heavy rainfall** at isolated places over Punjab, Sub-Himalaya West Bengal & Sikkim, Uttar Pradesh, Uttarakhand, West Rajasthan, Gujarat state, Madhya Maharashtra and Coastal Karnataka.

♦ **Thunderstorm with lightning** at isolated places likely over Bihar and Kerala & Mahe.

♦ **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, southwest Bay of Bengal off Sri-Lanka coast. Fishermen are advised not to venture into these areas.

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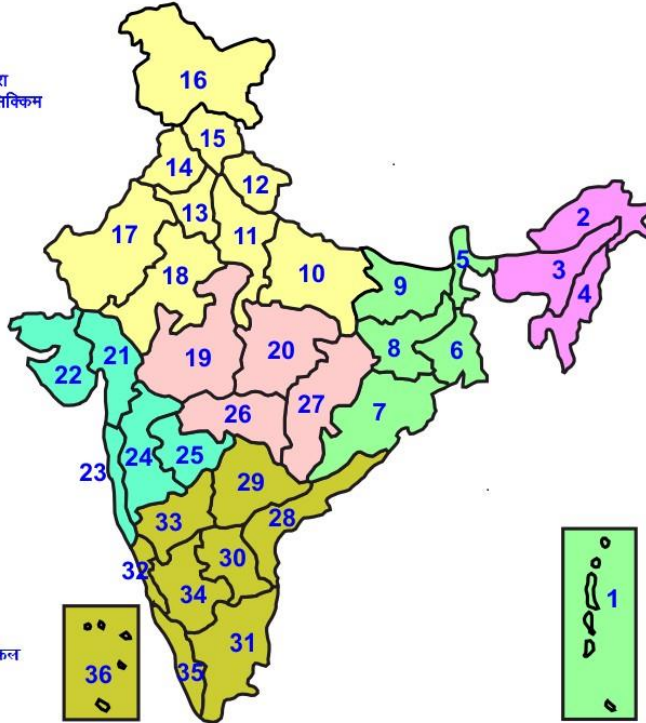
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LEGENDS

- 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

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

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