



Tuesday, June 27, 2023
Time of Issue: 0800 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. 22.0°N/ Long. 55°E, Lat. 22.0°N/ Long. 60°E, Lat. 22.0°N/ Long. 65°E, Porbandar, Ahmedabad, Udaipur, Narnaul, Ferozpur and Lat. 32.5°N/ Long. 72.5°E.
- ❖ Conditions are favourable for further advance of Southwest Monsoon into some more parts of Gujarat, Rajasthan, remaining parts of Haryana and Punjab during next 2 days.

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

- ❖ The Low Pressure Area lies over north Chhattisgarh & neighbourhood. It is very likely to move west-northwestwards towards north Madhya Pradesh during next 2 days
- ❖ An east-west trough runs from northwest Rajasthan to Northeast Bay of Bengal in lower tropospheric levels.
- ❖ An off-shore trough at mean sea level runs from south Gujarat coast to Kerala coast.
- ❖ Under the influence of above meteorological features;

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 Assam & Meghalaya, Arunachal Pradesh on 29th, 30th June & 01st July. Isolated **heavy rainfall** also likely over parts of East India on 27th and over northeast India during next 5 days.

Northwest India:

- ❖ Light/moderate fairly widespread to widespread rainfall with isolated heavy falls very likely over Western Himalayan Region and over the plains of northwest India during next 5 days.
- ❖ Isolated **Heavy to Very Heavy rainfall with Extremely Heavy Falls** very likely over East Rajasthan on 29th June, heavy to very heavy rainfall on 27th, 28th, 30th June & 01st July. Isolated **heavy/heavy to very heavy rainfall** very likely over Uttarakhand, West Uttar Pradesh, Himachal Pradesh during 27th June – 01st July.

Central India:

- ❖ Light/moderate fairly widespread to widespread rainfall with isolated **heavy/very heavy falls**, thunderstorm & lightning over the region (Madhya Pradesh, Chhattisgarh & Vidarbha) during next 3 days.
- ❖ Isolated **extremely heavy rainfall** very likely over East Madhya Pradesh on 27th; West Madhya Pradesh on 27th & 28th and over Vidarbha on 27th June.

South India:

- ❖ Light/moderate scattered to fairly widespread rainfall during next 5 days and isolated thunderstorm & lightning very likely over the region during next 2 days. **Isolated heavy to very heavy rainfall** also likely over Kerala & Mahe and Coastal Karnataka during 27th June to 01st July; South Interior Karnataka on 29th & 30th June.

West India:

- ❖ Light/moderate fairly widespread to widespread rainfall very likely over the region during next 5 days. **Isolated Heavy to very Heavy rainfall** is likely over Konkan & Goa, Gujarat State and Ghat areas of Madhya Maharashtra during 27th June to 01st July

Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): at most places Gujarat Region, East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Lakshadweep, Kerala & Mahe, Chhattisgarh and Gangetic West Bengal; at many places over Himachal Pradesh, Saurashtra & Kutch, Odisha, Jharkhand and Nagaland, Manipur, Mizoram & Tripura; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana-Chandigarh-Delhi, East Rajasthan, West Madhya Pradesh, Marathwada, Vidarbha, Coastal Karnataka, Bihar and Andaman & Nicobar Islands and at isolated places over Punjab, Uttar Pradesh, West Rajasthan, Telangana, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Sub-Himalaya West Bengal & Sikkim and Assam & Meghalaya.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): **Very heavy rainfall** at isolated places over East Madhya Pradesh.
- ❖ **Significant rainfall recorded (in cm)** (from 0830 hours IST to 1730 hours IST of yesterday): Jabalpur and Umaria-13; Jodhpur, Surendranagar, Madla-6; Digha-5, Long Islands and Jarsiguda-4; Rohtak, Kandla Aerodrome, Diu, Vallabh Vidyanagar, Mumbai (Santacruz), Matheran, Pachmarhi, Adilabad, Digha, Baroda Aerodrome, Diamond Harbour-3; Shimla, Orai, Damoh, Durg, Hiarakund-2 each.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Odisha, Bihar, Saurashtra & Kutch, Madhya Pradesh, Chhattisgarh, East Rajasthan, West Uttar Pradesh, Gangetic West Bengal, Assam & Meghalaya and East Madhya Pradesh.
- ❖ **Minimum Temperature Departures (as on 26-06-2023):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Bihar, Andaman & Nicobar Islands; at a few places over East Uttar Pradesh, Sub-Himalaya West Bengal & Sikkim, Arunachal Pradesh, Marathwada; at isolated places over Gangetic West Bengal. They were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over East Madhya Pradesh, Telangana, Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at many places over Haryana-Chandigarh-Delhi, West Rajasthan, Coastal Karnataka, Lakshadweep; at a few places over West Uttar Pradesh, West Madhya Pradesh, Vidarbha, Saurashtra & Kutch; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gujarat Region, Konkan & Goa, Odisha, Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 19.9°C** was reported at **Malanjhand (East Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 26-06-2023):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Assam & Meghalaya; at a few places over Sub-Himalaya West Bengal & Sikkim and at isolated places over East Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at a few places over Bihar, Nagaland, Manipur, Mizoram & Tripura and at isolated places over East Madhya Pradesh, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal. They were **markedly below normal (-5.1°C or less)** at most places over Haryana-Chandigarh-Delhi; at many places over Himachal Pradesh; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan, Gujarat Region, East Madhya Pradesh and Odisha and at isolated places over Punjab, Saurashtra & Kutch, Telangana and West Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Marathwada, Chhattisgarh and Gangetic West Bengal and at isolated places over Madhya Maharashtra and West Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over Coastal Andhra Pradesh & Yanam, Jharkhand and Lakshadweep and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 40.0°C** was reported at **Tikamgarh (East Madhya Pradesh)**.



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Northern Limit of Monsoon (NLM) passes through Lat. 22.0°N/ Long. 55°E, Lat. 22.0°N/ Long. 60°E, Lat. 22.0°N/ Long. 65°E, Porbandar, Ahmedabad, Udaipur, Narnaul, Firozpur and Lat. 32.5°N/ Long. 72.5°E.
- ❖ Conditions are favourable for further advance of Southwest Monsoon into some more parts of Gujarat, Rajasthan, remaining parts of Haryana and Punjab during next 2 days.
- ❖ The **Low Pressure Area** over north Chhattisgarh & neighbourhood with associated cyclonic circulation extending upto 7.6 km above mean sea level persists. It is very likely to move towards north Madhya Pradesh during next 2 days.
- ❖ The east-west trough from northwest Rajasthan to Northeast Bay of Bengal across south Haryana, south Uttar Pradesh, northeast Madhya Pradesh, **Low Pressure Area** over north Chhattisgarh & neighbourhood and northwest Bay of Bengal extending upto 1.5 km above mean sea level persists.
- ❖ The off-shore trough at mean sea level from south Gujarat coast to Kerala coast 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 02nd July, 2023)

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

Weather Outlook for subsequent 2 days (During 02nd July-04th 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

27 June (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Vidarbha, Madhya Pradesh; **Heavy to very heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Chhattisgarh, Kerala & Mahe and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Jharkhand, Gangetic West Bengal, West Rajasthan, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Saurashtra & Kutch and Coastal Karnataka.

♦ **Thunderstorm with lightning** very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, 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. **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 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over West Madhya Pradesh; **Heavy to very heavy rainfall** at isolated places over East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, East Rajasthan and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, West Rajasthan, Bihar, Odisha, Sub-Himalaya West Bengal & Sikkim, Vidarbha, Gujarat state, Coastal Karnataka, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning** very likely at isolated places over Coastal Andhra Pradesh & Yanam and Karnataka.

♦ **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 3): ♦ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over East Rajasthan; **Heavy to very heavy rainfall** at isolated places over West Rajasthan, West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Gujarat region, Coastal & South Interior Karnataka, Konkan & Goa, Madhya Maharashtra and Kerala & Mahe.

♦ **Thunderstorm with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam and Coastal Karnataka.

♦ **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 4): ♦ **Heavy to very heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam and Coastal Karnataka.

♦ **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.

01 July (Day 5): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Uttar Pradesh, Uttarakhand, East Rajasthan, Gujarat Region, Konkan & Goa, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning** likely at isolated places over Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

♦ **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	27-Jun	28-Jun	29-Jun	30-Jun	1-Jul
		Day 1	Day 2	Day 3	Day 4	Day 5
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	WS	WS	FWS
2	ARUNACHAL PRADESH	WS	WS	WS	WS	FWS
3	ASSAM & MEGHALAYA	WS	WS	WS	WS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	WS	WS	WS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	WS	WS	WS	FWS
6	GANGETIC WEST BENGAL	WS	FWS	SCT	SCT	ISOL
7	ODISHA	FWS	FWS	SCT	SCT	SCT
8	JHARKHAND	WS	FWS	SCT	SCT	SCT
9	BIHAR	SCT	SCT	FWS	FWS	FWS
10	EAST UTTAR PRADESH	SCT	SCT	FWS	FWS	FWS
11	WEST UTTAR PRADESH	FWS	SCT	FWS	FWS	FWS
12	UTTARAKHAND	WS	WS	WS	WS	WS
13	HARYANA CHANDIGARH & DELHI	FWS	FWS	SCT	SCT	FWS
14	PUNJAB	FWS	FWS	SCT	SCT	SCT
15	HIMACHAL PRADESH	WS	WS	WS	WS	SCT
16	JAMMU & KASHMIR AND LADAKH	WS	SCT	SCT	SCT	SCT
17	WEST RAJASTHAN	SCT	FWS	FWS	FWS	FWS
18	EAST RAJASTHAN	FWS	WS	WS	FWS	WS
19	WEST MADHYA PRADESH	WS	WS	WS	FWS	SCT
20	EAST MADHYA PRADESH	WS	WS	FWS	SCT	SCT
21	GUJARAT REGION	WS	WS	FWS	FWS	WS
22	SAURASHTRA & KUTCH	FWS	FWS	FWS	SCT	FWS
23	KONKAN & GOA	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	WS	FWS	FWS	SCT	SCT
25	MARATHAWADA	WS	FWS	SCT	SCT	ISOL
26	VIDARBHA	WS	WS	FWS	FWS	SCT
27	CHHATTISGARH	WS	FWS	SCT	SCT	SCT
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	ISOL	SCT
29	TELANGANA	SCT	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	SCT	SCT	FWS	FWS	ISOL
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	FWS	FWS	FWS
35	KERALA & MAHE	WS	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	WS	FWS	FWS	FWS	FWS

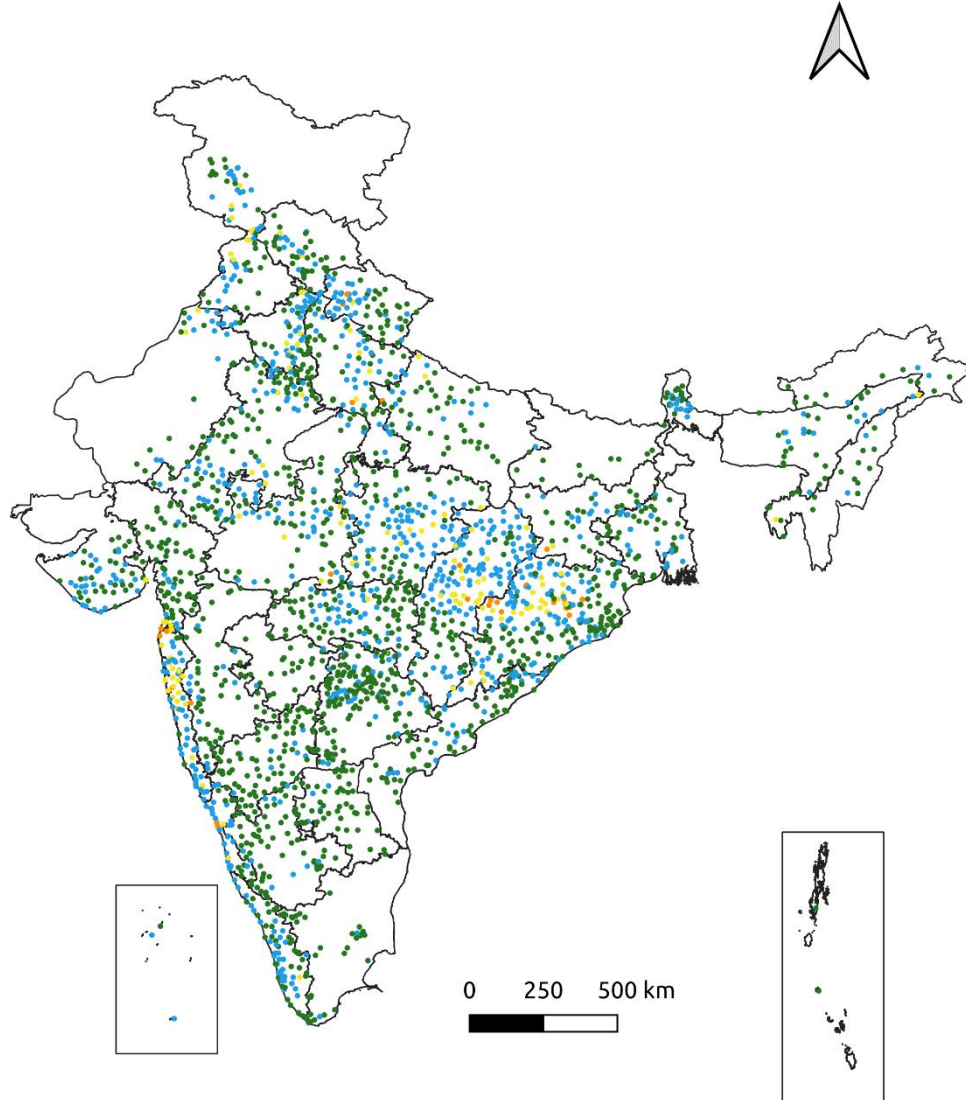
Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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



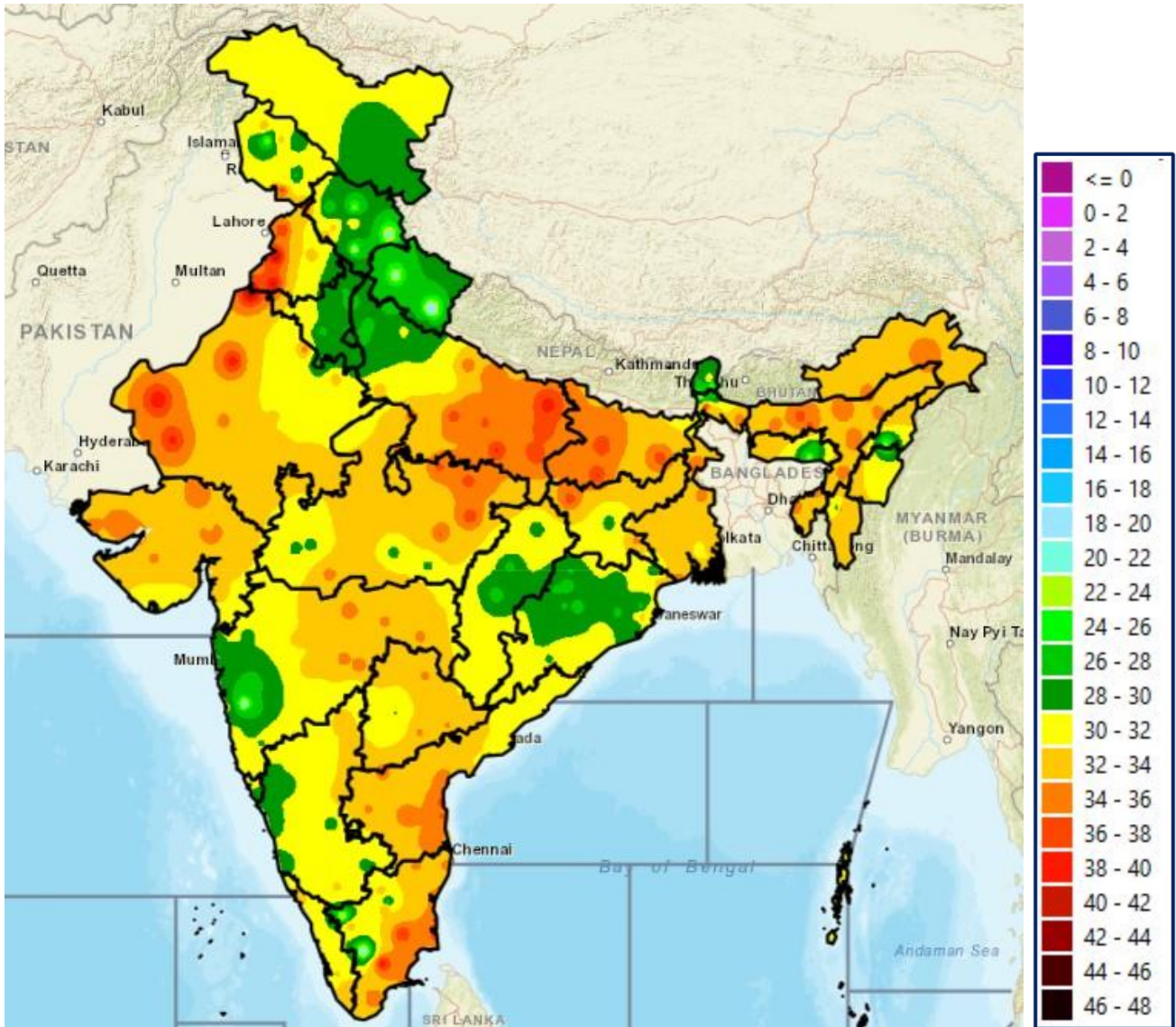
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 25-6-2023 to 0830 IST of 26-6-2023



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 26.06.2023



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Fig. 3: Minimum Temperatures Dated 26.06.2023

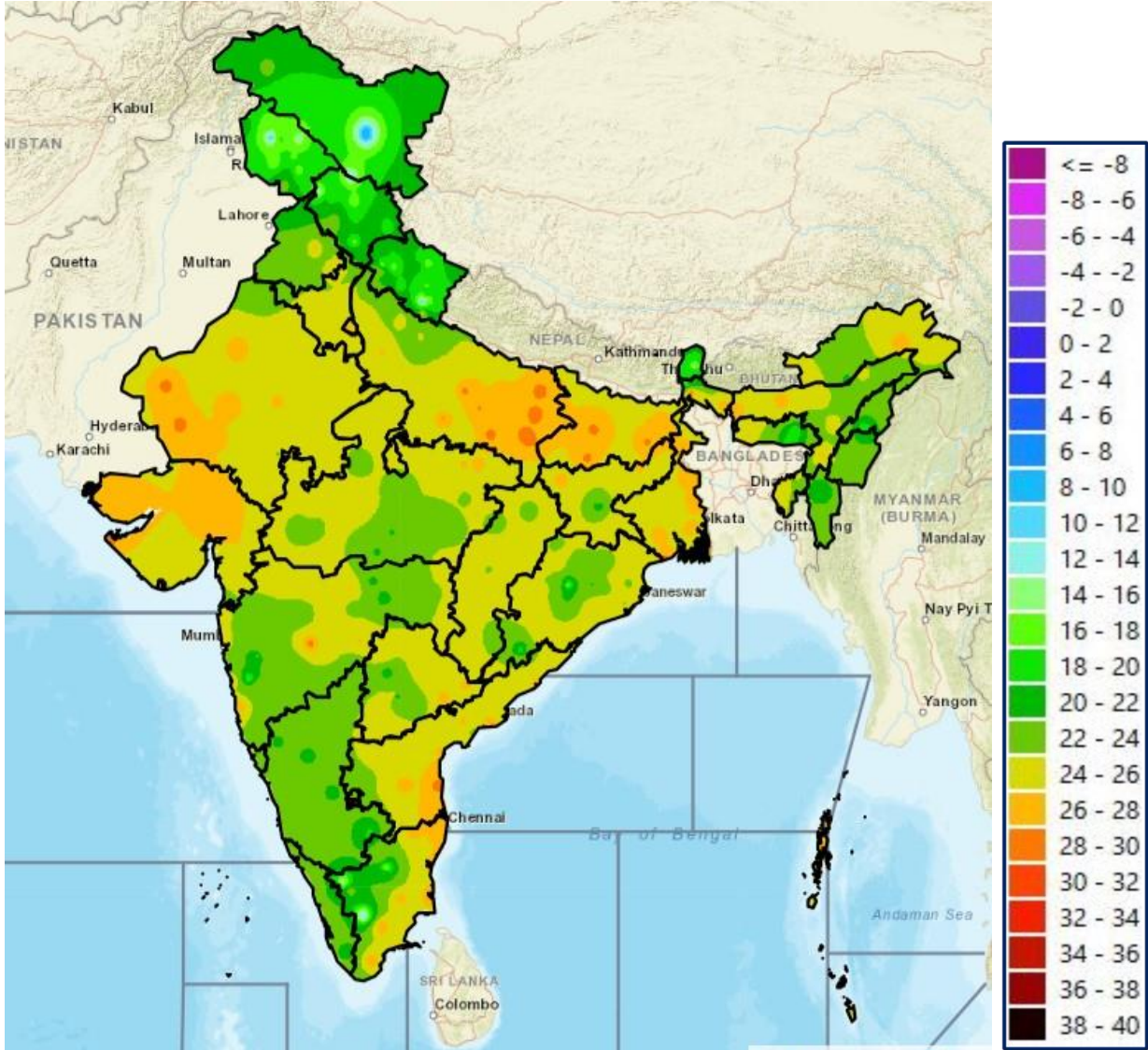


Fig. 4: Departure from Normal of Maximum Temperatures Dated 26.06.2023

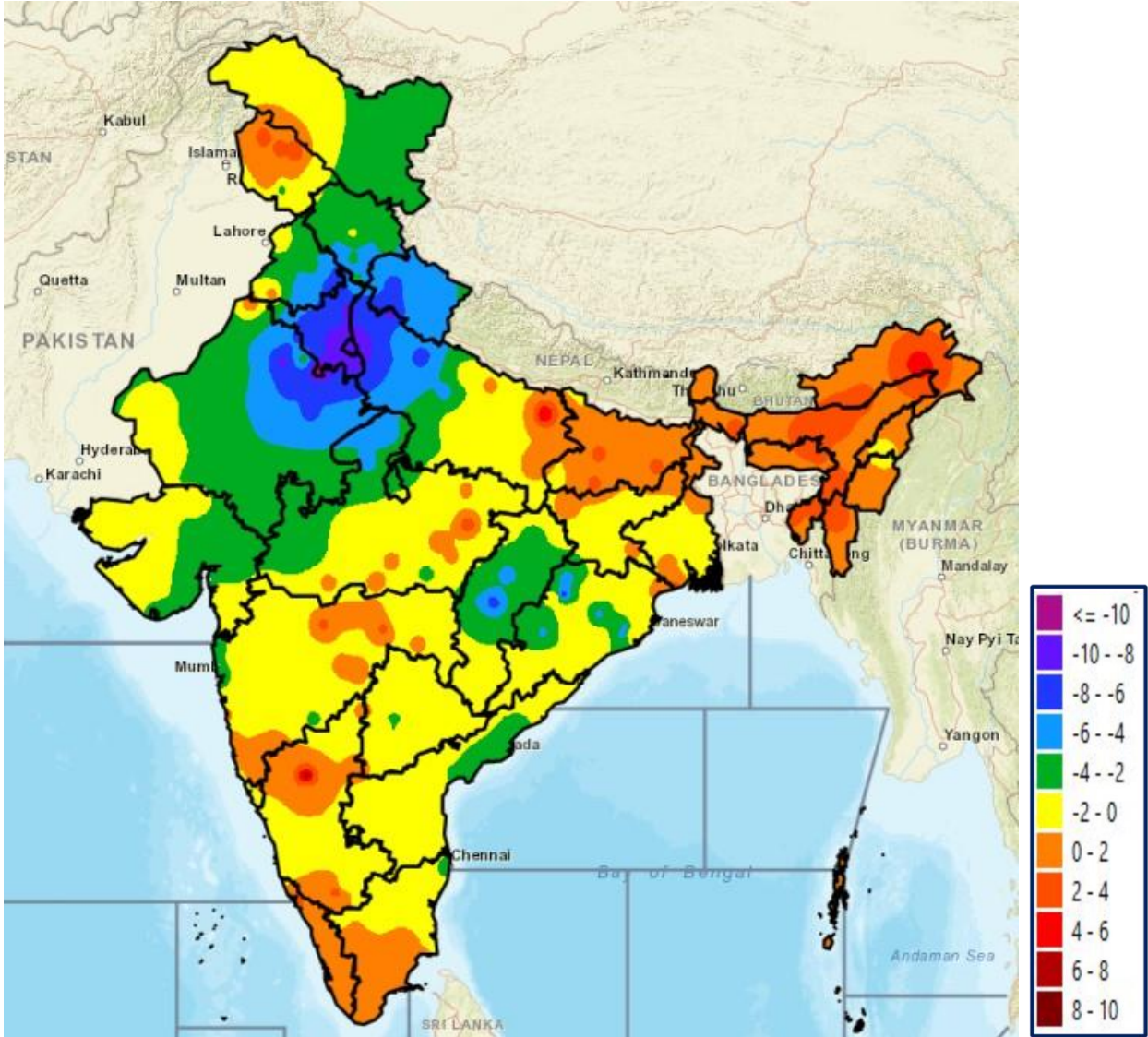
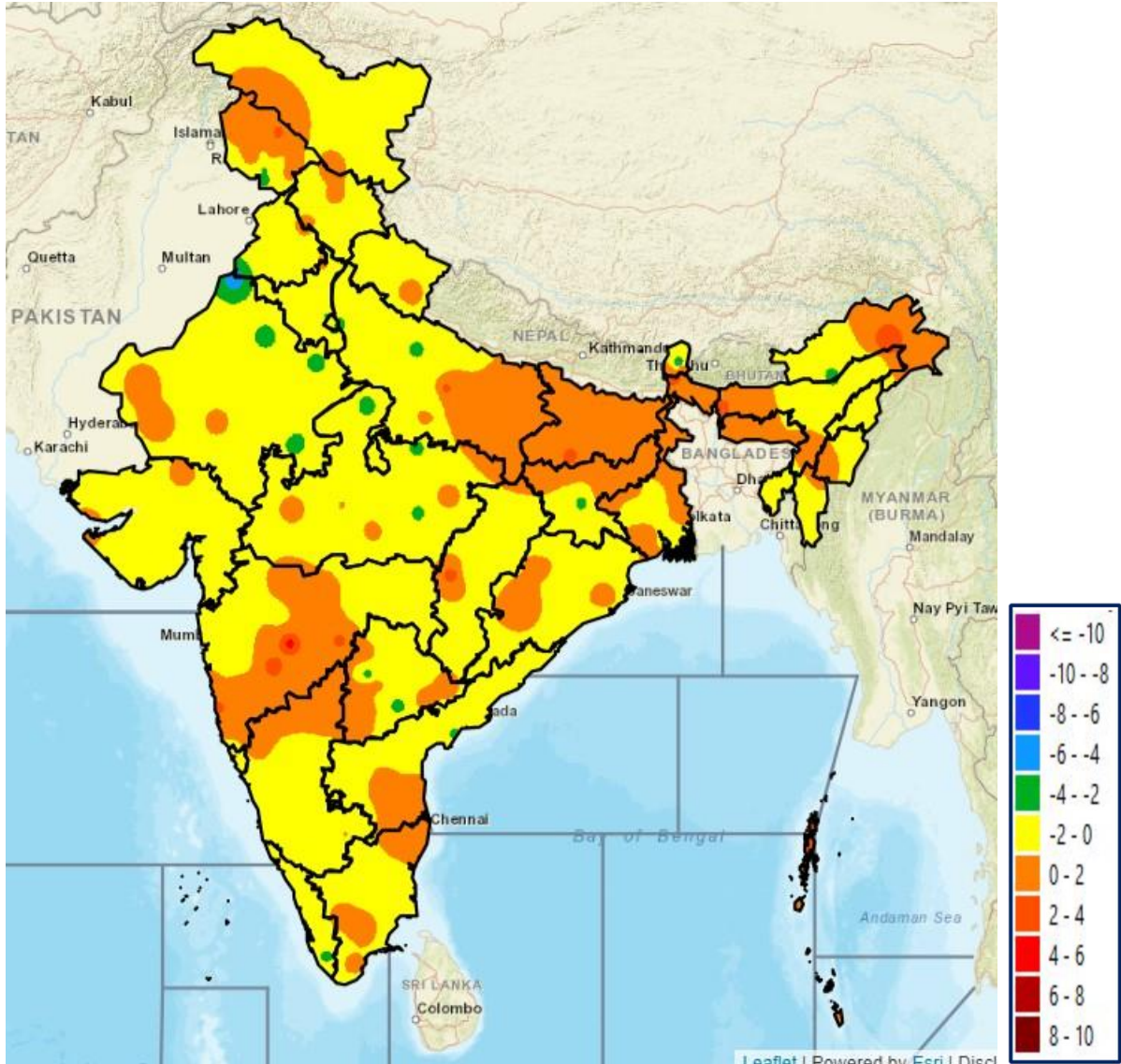


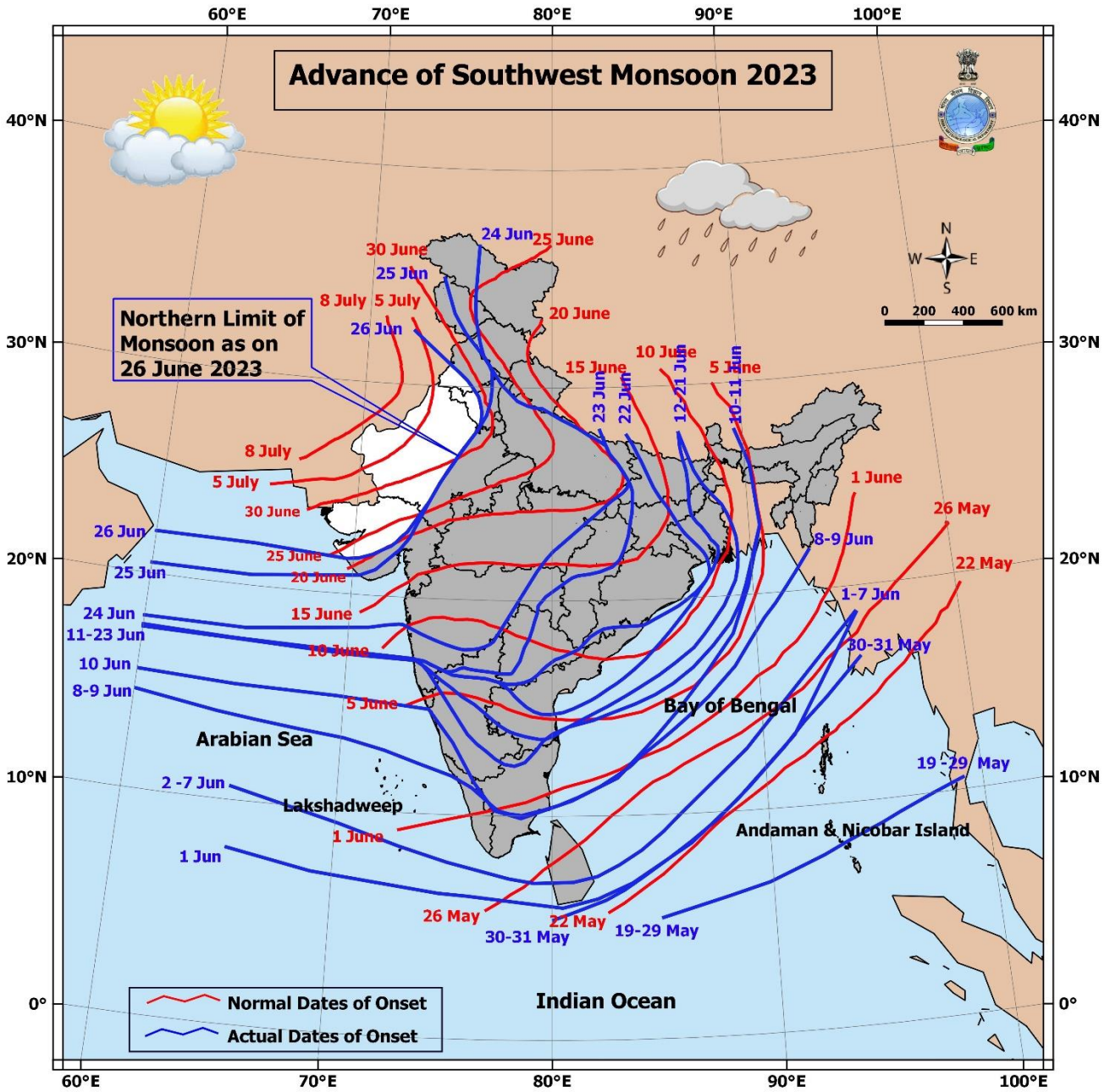
Fig. 5: Departure from Normal of Minimum Temperatures Dated 26.06.2023



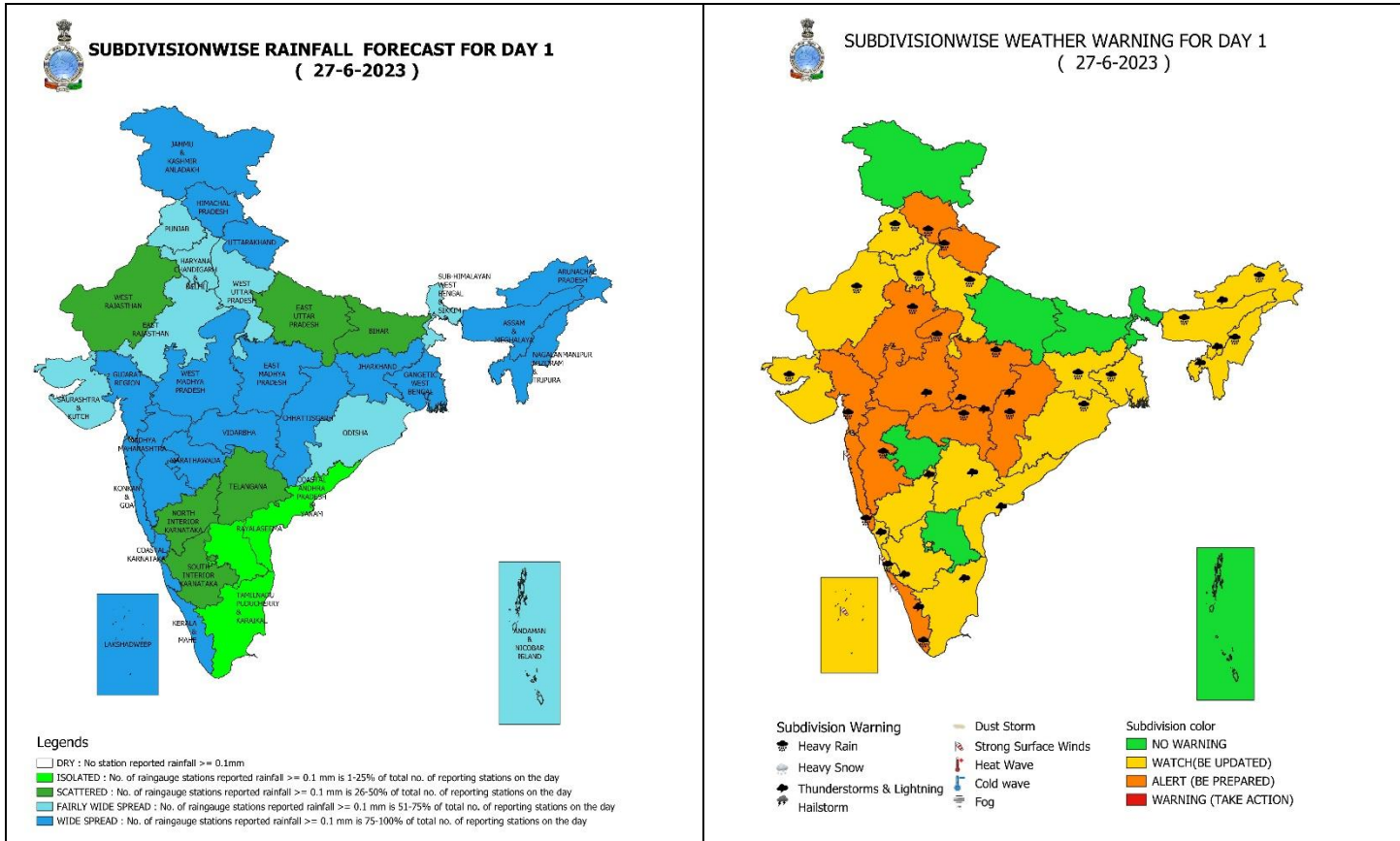
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Fig. 6: Advance of Southwest Monsoon



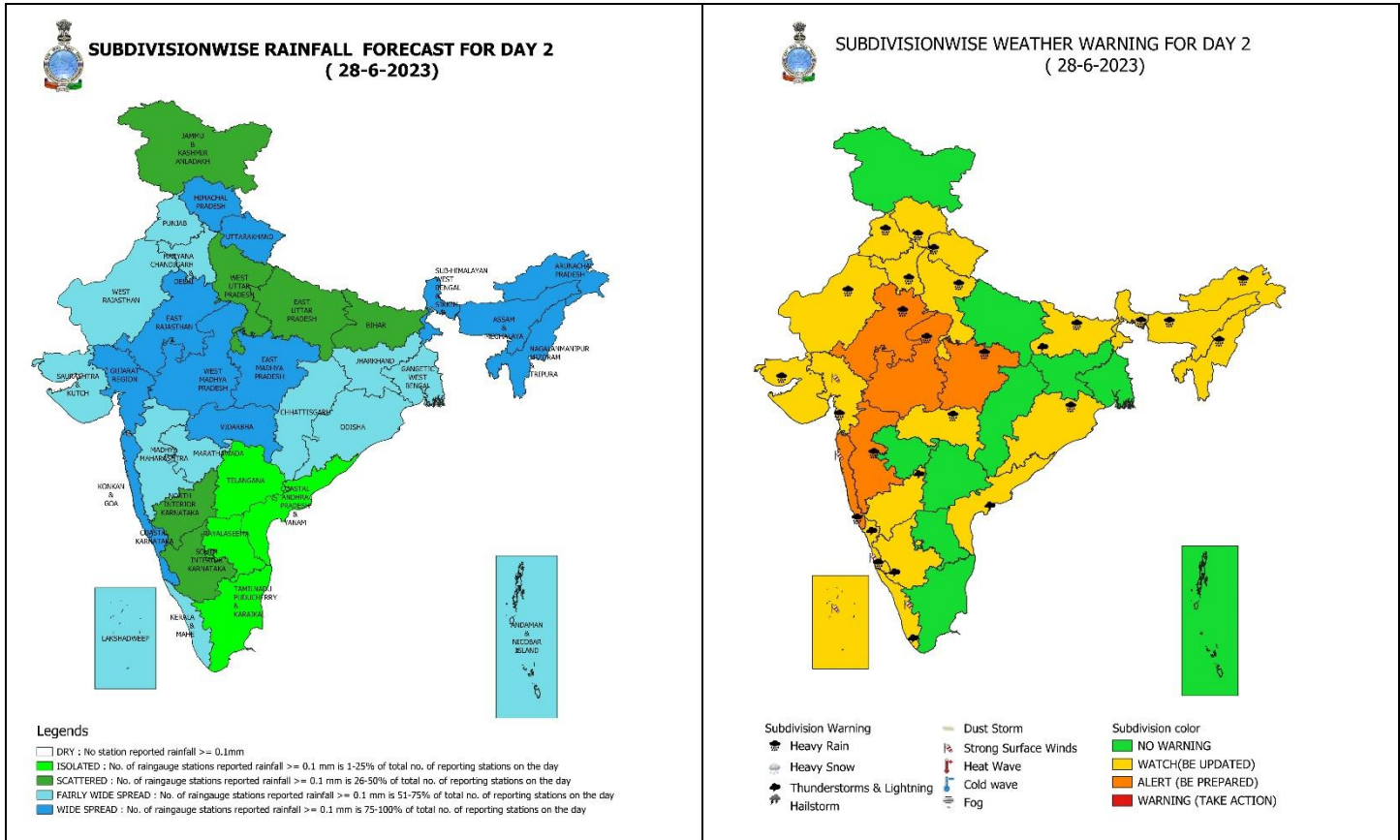
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27 June (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Vidarbha, Madhya Pradesh; **Heavy to very heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Chhattisgarh, Kerala & Mahe and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Jharkhand, Gangetic West Bengal, West Rajasthan, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Saurashtra & Kutch and Coastal Karnataka.

♦ **Thunderstorm with lightning** very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, 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. **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.



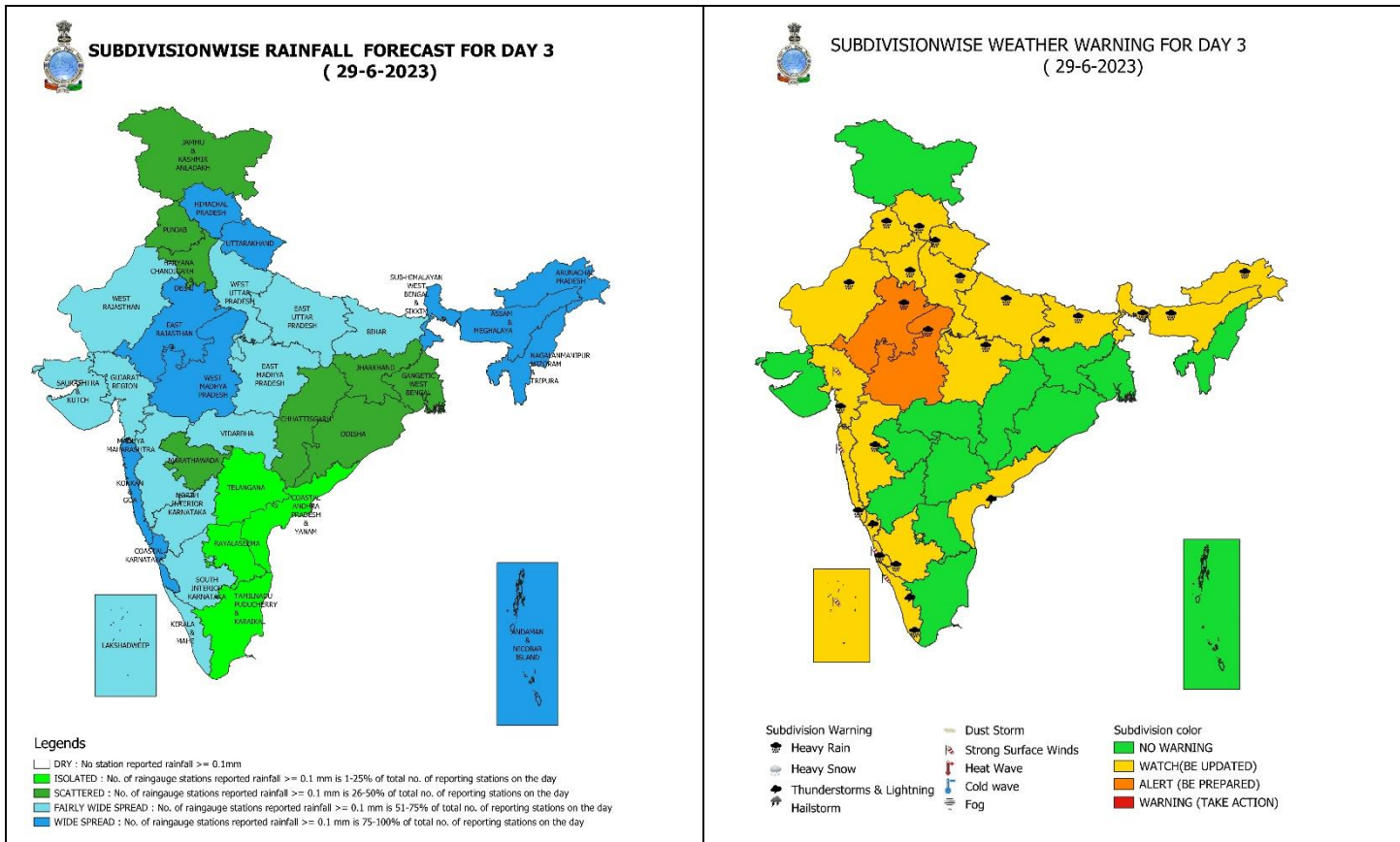
28 June (Day 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over West Madhya Pradesh; **Heavy to very heavy rainfall** at isolated places over East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, East Rajasthan and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, West Rajasthan, Bihar, Odisha, Sub-Himalaya West Bengal & Sikkim, Vidarbha, Gujarat state, Coastal Karnataka, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning** very likely at isolated places over Coastal Andhra Pradesh & Yanam and Karnataka.

♦ **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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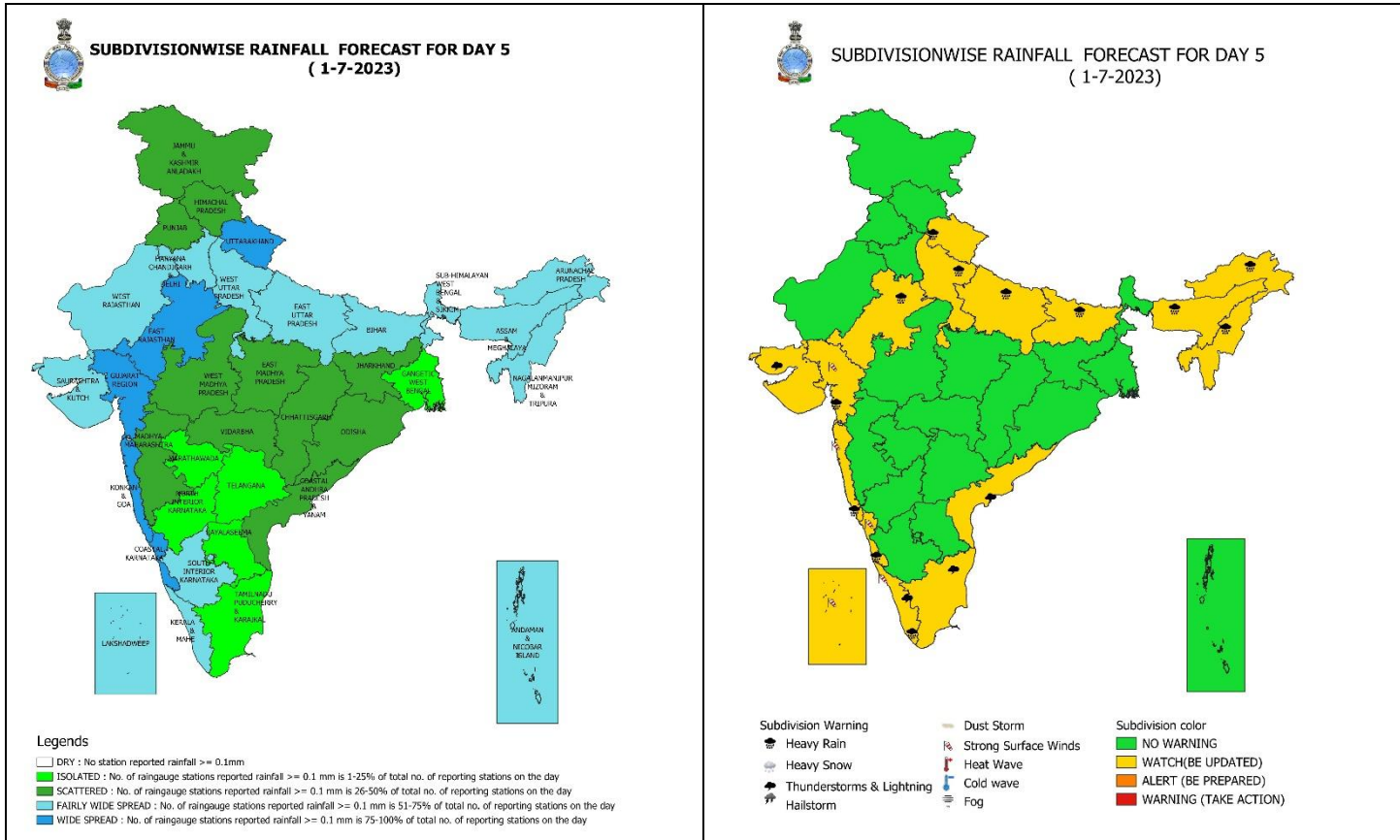
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29 June (Day 3): ♦ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over East Rajasthan; **Heavy to very heavy rainfall** at isolated places over West Rajasthan, West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Gujarat region, Coastal & South Interior Karnataka, Konkan & Goa, Madhya Maharashtra and Kerala & Mahe.

♦ **Thunderstorm with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam and Coastal Karnataka.

♦ **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.



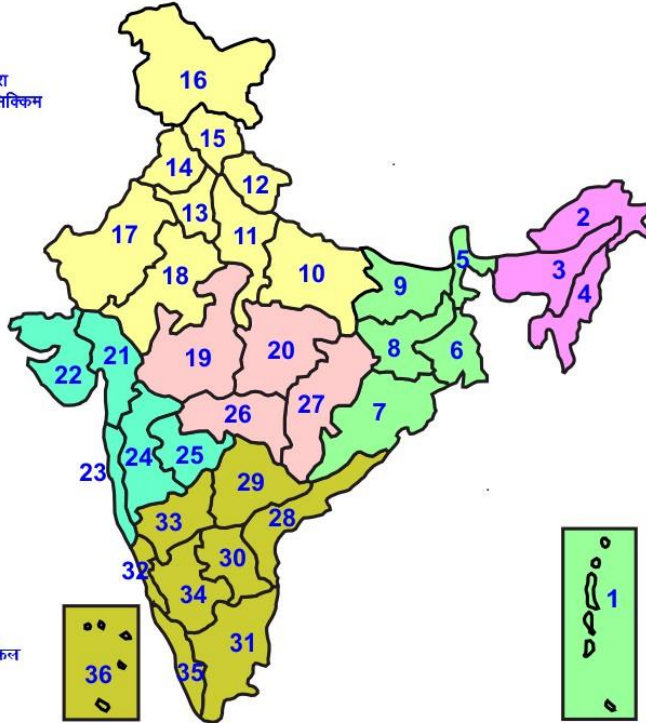
01 July (Day 5): ♦ **Heavy rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Uttar Pradesh, Uttarakhand, East Rajasthan, Gujarat Region, Konkan & Goa, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning** likely at isolated places over Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

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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

* 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 < 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)

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