



Wednesday, July 05, 2023
Time of Issue: 0800 hours IST
(MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

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

- ❖ Western end of the Monsoon trough at mean sea level lies near its normal position while its eastern end lies to the south of its normal position.
- ❖ A cyclonic circulation lies over central parts of Uttar Pradesh in lower tropospheric levels.
- ❖ The off-shore trough at mean sea level runs from south Gujarat coast to Kerala coast.
- ❖ A cyclonic circulation lies over south Gujarat & neighbourhood in middle tropospheric levels.
- ❖ A cyclonic circulation lies over Westcentral Bay of Bengal & adjoining north Andhra Pradesh coast in lower & middle tropospheric levels.
- ❖ An east-west shear zone runs roughly along 15°N in middle tropospheric levels.

Weather Forecast and Warning:

South India: Light/moderate widespread rainfall with **isolated heavy to very heavy rainfall** very likely to continue over the region during next 2 days & decrease thereafter.

West India: Light/moderate 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 over Gujarat state on 06th & 07th July. **Isolated extremely heavy falls** also likely over Konkan & Goa and ghat areas of Madhya Maharashtra on 5th and 6th July and over Gujarat on 7th July.

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, Odisha during next 5 days; over Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur during next 2 days and decrease thereafter. **Isolated heavy rainfall** also likely over Jharkhand on 07th & 08th July.

Northwest India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** is very likely over Uttarakhand, Himachal Pradesh during next 5 days and over East Uttar Pradesh during 05th-06th; Punjab, Haryana and West Uttar Pradesh during 06th-09th; East Rajasthan during 05th-08th and West Rajasthan during 07th - 09th July.

No significant weather likely over rest parts of the country.

Main Weather Observations

- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): **at most places over** , Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Coastal Karnataka, Lakshadweep and Kerala & Mahe; **at many places over** Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh and South Interior Karnataka; **at a few places over** Andaman & Nicobar Islands, Bihar, East Uttar Pradesh, Haryana-Chandigarh-Delhi, East Madhya Pradesh, Punjab and Tamil Nadu, Puducherry & Karaikal and **at isolated places over** Assam & Meghalaya, Gangetic West Bengal, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Telangana, North Interior Karnataka and Arunachal Pradesh.
- ❖ **Heavy Rainfall observed** (from 0830 hours IST to 1730 hours IST of yesterday): **Heavy rainfall** at isolated places over Sub-Himalaya West Bengal & Sikkim, East Rajasthan and Kerala & Mahe.
- ❖ **Significant rainfall recorded** (from 0830 hours IST to 1730 hours IST of yesterday) (**in cm**) : Bulurghat (Sub-Himalaya West Bengal & Sikkim), Pilani (East Rajasthan) and Cannur (Kerala)-7 each. Raipur and Kozhikode -6 each; Rohtak, Karipur, Cochin, Maya Bandar, Dhubri, Fursat Ganj -5 each; Aijal, Sabur, Ramagundam, Valprai and Jammu – 4 each; Varanasi, Chindwara and Kochin -3each; Nahan, Parbhani, Patiala, Ambala, Colaba, Alibag, Harnai, Goa, Mangalore, Dharmapuri, Ayanagar, Mahabaleshwar, Thiruvananthapuram, Aminidivi – 2 each; Agartala, Majbat, Kalimpong, Bagdogra, Forbesganj, Mandi, Palam, Banda, Shivpuri, Bhopal, Rewa, Buldana, Matheran, Tirupathi, Tiruttani, Cooch Behar, Jalpaiguri, Malda, Lingpui, and Pasighat – 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, Punjab, Haryana-Chandigarh-Delhi, Vidarbha, Uttarakhand, East Uttar Pradesh Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Jharkhand, East Uttar Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, West Madhya Pradesh, Marathwada, Telangana and Bihar.
- ❖ **Minimum Temperature Departures (as on 04-07-2023):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Vidarbha; at a few places over Chhattisgarh; **above normal (1.6°C to 3.0°C)** at most places over Haryana-Chandigarh-Delhi, Jharkhand; at many places over Madhya Pradesh, Rajasthan, Himachal Pradesh, Odisha; at a few places over Uttar Pradesh, Gangetic West Bengal, Marathwada, Telangana and at isolated places over Punjab, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Gujarat state. They were **below normal (-1.6°C to -3.0°C)** at many places over Coastal Andhra Pradesh & Yanam, Lakshadweep; at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Andaman & Nicobar Islands and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature** of **20.9°C** was reported at **Salem (Tamil Nadu)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 04-07-2023):** Maximum temperatures were **markedly above normal (5.1°C to more)** at a few places over Vidarbha and at isolated places over Gangetic West Bengal; **appreciably above normal (3.1°C to 5.0°C)** at many places over Chhattisgarh and Telangana; at a few places over Odisha and Marathwada and at isolated places over East Madhya Pradesh; ; **above normal (1.6°C to 3.0°C)** at many places over North Interior Karnataka; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Rajasthan, West Madhya Pradesh and at isolated places over Coastal Andhra Pradesh & Yanam. They were **appreciably below normal (-3.1°C to -5.0°C)** at most places over Kerala & Mahe; at a few places over East Uttar Pradesh and Bihar; at isolated places over Himachal Pradesh; **below normal (-1.6°C to -3.0°C)** at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Haryana-Chandigarh-Delhi, Konkan & Goa and West Uttar Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Madhya Pradesh, Saurashtra & Kutch, Rayalaseema and Andaman & Nicobar Islands and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature** of **42.0°C** was reported at **Ganganagar and Bikaner (West Rajasthan)**.



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Monsoon trough at mean sea level now passes through Ganganagar, Churu, Guna, Satna, Pendra Road, Sambalpur, Balasore and thence southeastwards to Central Bay of Bengal.
- ❖ The east-west shear zone roughly along 15°N between 4.5 & 7.6 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 Westcentral Bay of Bengal adjoining north Andhra Pradesh coast extending between 1.5 & 7.6 km above mean sea level tilting southwestwards with height persists.
- ❖ The cyclonic circulation over central parts of Uttar Pradesh extending upto 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over south Gujarat Region & neighborhood extending upto 3.1 km above mean sea level persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 09th 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 (During 09th July-11th July, 2023)

- ❖ Fairly widespread to widespread light/moderate rainfall likely over most parts of the country except over extreme south Peninsular India where isolated rainfall is likely.
- ❖ Isolated to scattered rainfall over remaining part of the country India.



Table-1

5 Day Rainfall Forecast						
S. No.	Subdivision	5-Jul	6-Jul	7-Jul	8-Jul	9-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	FWS
6	GANGETIC WEST BENGAL	FWS	FWS	FWS	SCT	ISOL
7	ODISHA	FWS	WS	FWS	FWS	WS
8	JHARKHAND	FWS	FWS	WS	WS	FWS
9	BIHAR	FWS	SCT	SCT	SCT	FWS
10	EAST UTTAR PRADESH	WS	FWS	FWS	FWS	FWS
11	WEST UTTAR PRADESH	FWS	FWS	FWS	FWS	WS
12	UTTARAKHAND	WS	WS	WS	WS	FWS
13	HARYANA CHANDIGARH & DELHI	SCT	FWS	FWS	FWS	FWS
14	PUNJAB	SCT	FWS	FWS	FWS	FWS
15	HIMACHAL PRADESH	WS	WS	WS	WS	WS
16	JAMMU & KASHMIR AND LADAKH	FWS	FWS	SCT	SCT	WS
17	WEST RAJASTHAN	ISOL	SCT	FWS	FWS	FWS
18	EAST RAJASTHAN	SCT	FWS	FWS	FWS	FWS
19	WEST MADHYA PRADESH	FWS	FWS	FWS	SCT	FWS
20	EAST MADHYA PRADESH	FWS	FWS	FWS	FWS	WS
21	GUJARAT REGION	SCT	FWS	WS	WS	FWS
22	SAURASHTRA & KUTCH	SCT	FWS	WS	WS	FWS
23	KONKAN & GOA	WS	WS	WS	FWS	WS
24	MADHYA MAHARASHTRA	WS	WS	WS	FWS	FWS
25	MARATHAWADA	WS	FWS	WS	FWS	FWS
26	VIDARBHA	WS	WS	WS	WS	FWS
27	CHHATTISGARH	WS	WS	WS	WS	WS
28	COASTAL ANDHRA PRADESH & YANAM	WS	FWS	FWS	FWS	SCT
29	TELANGANA	WS	WS	FWS	FWS	SCT
30	RAYALASEEMA	WS	FWS	FWS	FWS	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	SCT	SCT	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	WS	WS	WS	FWS	SCT
34	SOUTH INTERIOR KARNATAKA	WS	WS	FWS	FWS	SCT
35	KERALA & MAHE	WS	WS	WS	WS	FWS
36	LAKSHADWEEP	WS	WS	WS	WS	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
(Service to the Nation since 1875)

Fig. 1: Maximum Temperatures Dated 03.07.2023

Fig. 2: Departure of Maximum Temp. Dated 03.07.2023

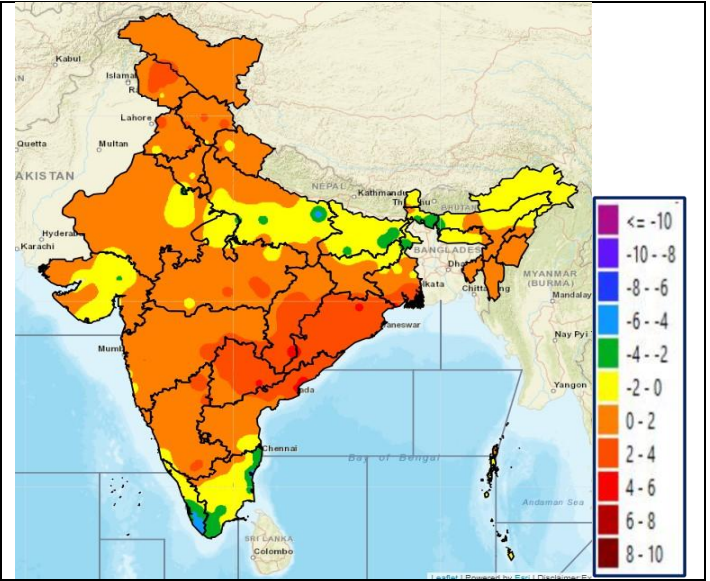
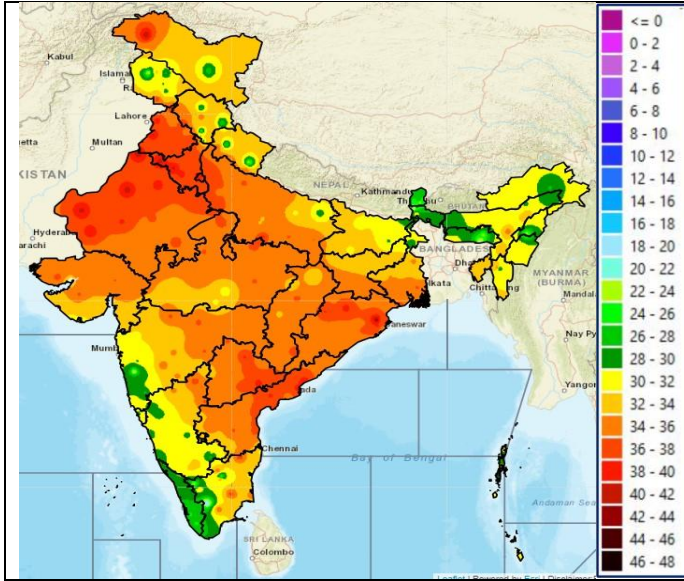


Fig. 3: Minimum Temperatures Dated 04.07.2023

Fig. 4: Departure of Minimum Temp. Dated 04.07.2023

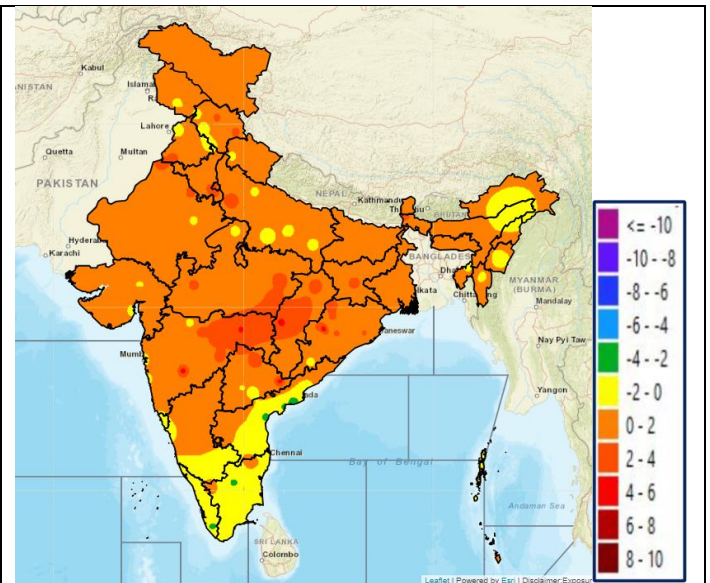
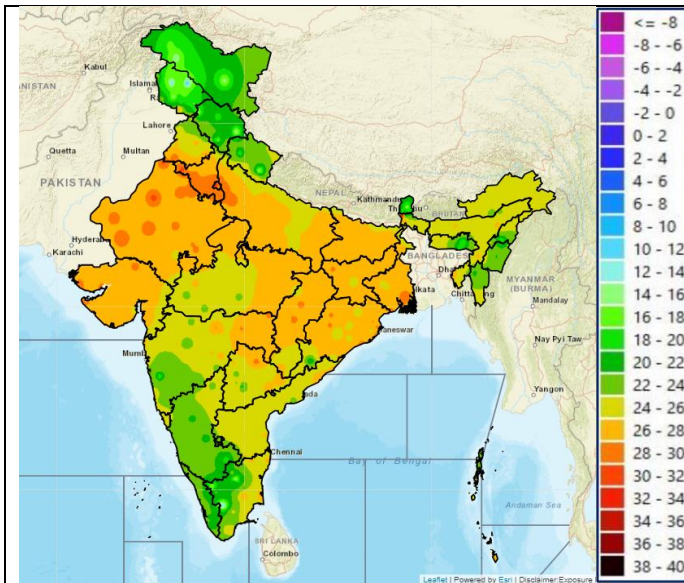
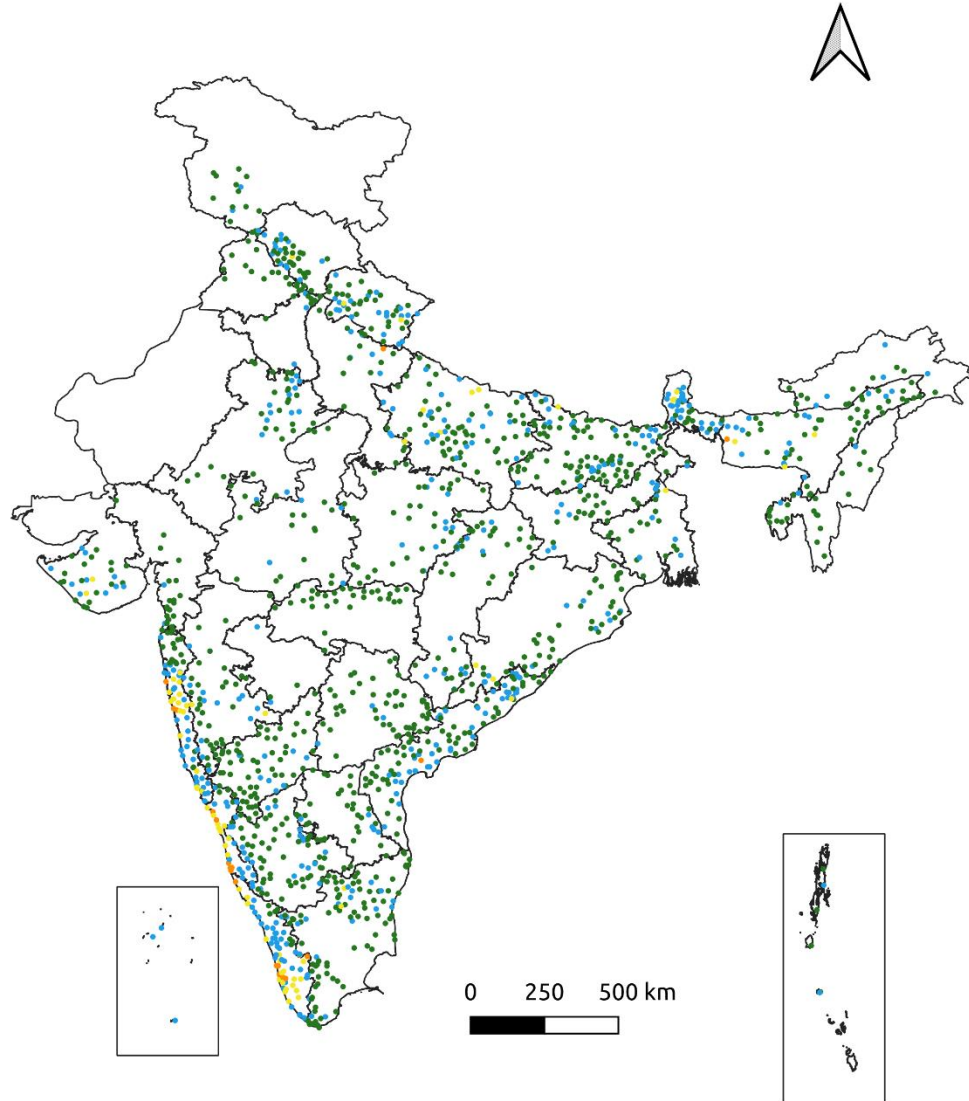


Fig. 5: Accumulated Rainfall (mm) during past 24 hours



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 3-7-2023 to 0830 IST of 4-7-2023

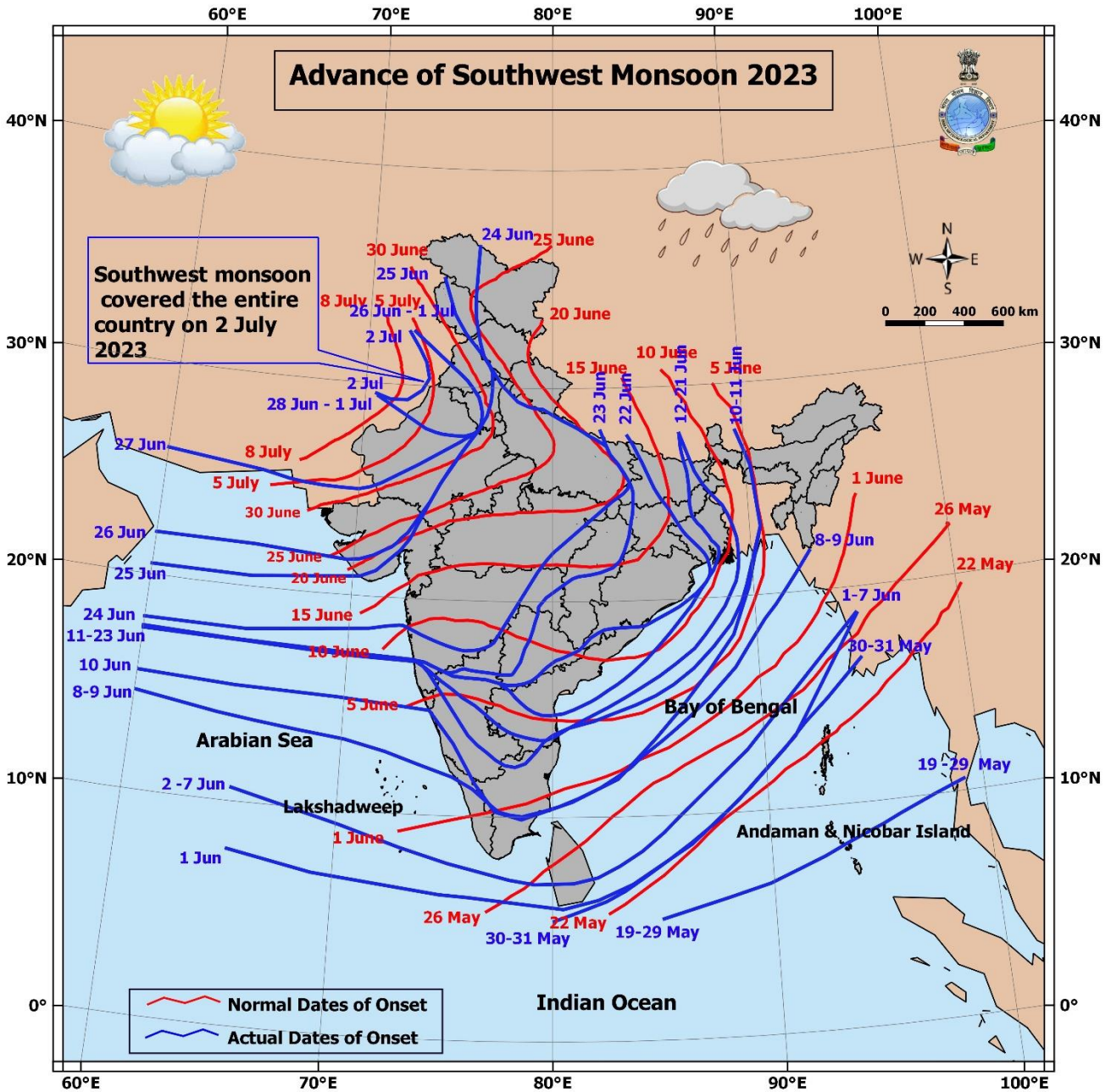


Legends

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



Fig. 6: Advance of Southwest Monsoon

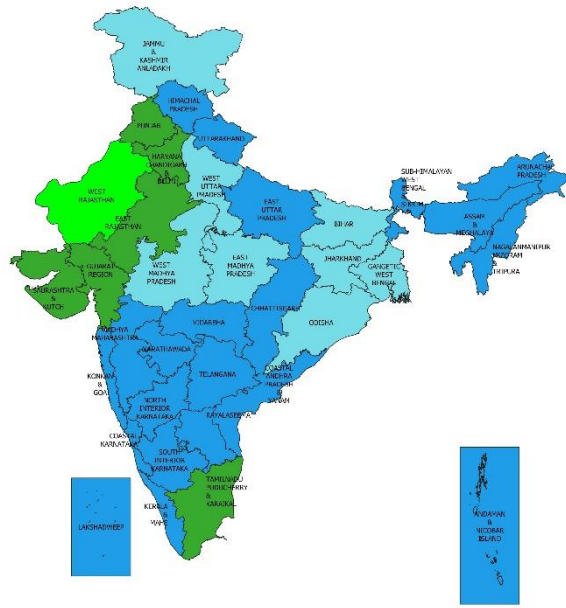


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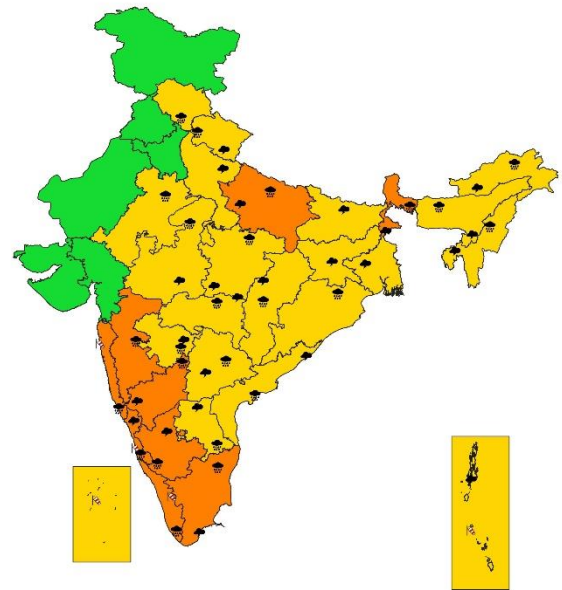
(Service to the Nation since 1875)

**SUBDIVISIONWISE RAINFALL FORECAST FOR DAY 1
(5-7-2023)**



Legends
 □ DRY : No station reported rainfall ≥ 0.1 mm
 ■ ISOLATED : No. of raingauge stations reported rainfall ≥ 0.1 mm is 1-25% of total no. of reporting stations on the day
 ■ SCATTERED : No. of raingauge stations reported rainfall ≥ 0.1 mm is 26-50% of total no. of reporting stations on the day
 ■ FAIRLY WIDE SPREAD : No. of raingauge stations reported rainfall ≥ 0.1 mm is 51-75% of total no. of reporting stations on the day
 ■ WIDE SPREAD : No. of raingauge stations reported rainfall ≥ 0.1 mm is 75-100% of total no. of reporting stations on the day

**SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
(5-7-2023)**

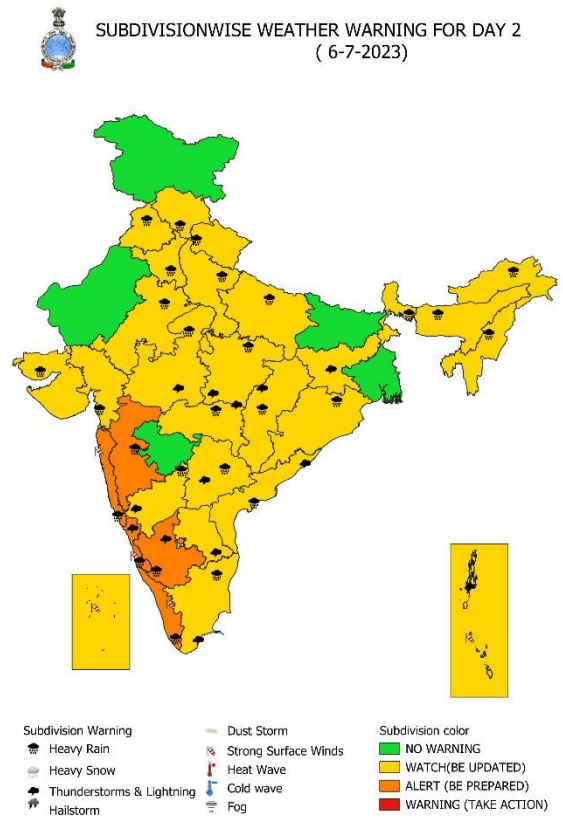
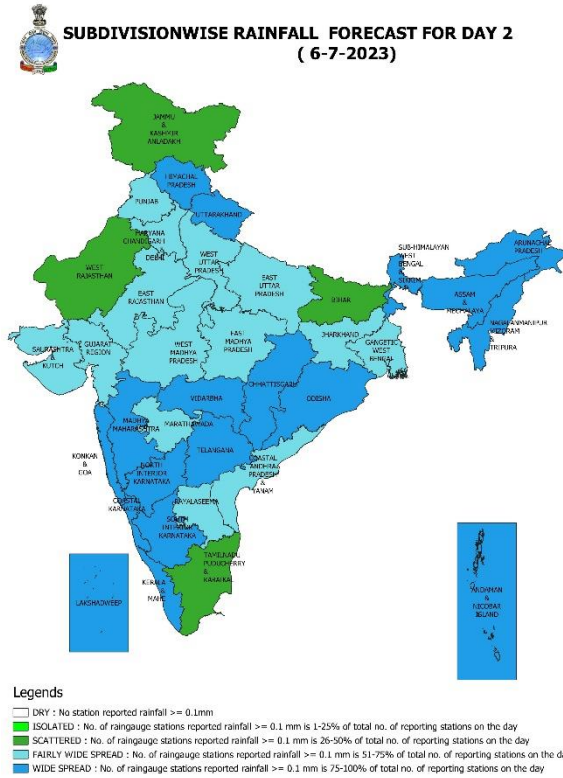


Subdivision Warning
 ☁ Heavy Rain
 ❄ Heavy Snow
 ⚡ Thunderstorms & Lightning
 🌨 Hailstorm
 🌪 Dust Storm
 🌪 Strong Surface Winds
 🌡 Heat Wave
 🌬 Cold wave
 🌫 Fog

Subdivision color
 ■ NO WARNING
 ■ WATCH(BE UPDATED)
 ■ ALERT (BE PREPARED)
 ■ WARNING (TAKE ACTION)

05 July (Day 1):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Konkan & Goa, Madhya Maharashtra; **heavy to very heavy rainfall** at isolated places over Sub-Himalaya West Bengal & Sikkim, East Uttar Pradesh, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Uttarakhand, Himachal Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema.
- ❖ **Thunderstorm with lightning and gusty wind (40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands and **with lightning** over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Jharkhand, Bihar, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph very likely over Westcentral & Southwest and adjoining parts of Eastcentral Arabian Sea, west-central Bay of Bengal. **Squally weather speed reaching 40-45 kmph gusting to 50 kmph** very likely along & off Kerala-Karnataka-south Maharashtra- 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.



06 July (Day 2):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Konkan & Goa, Madhya Maharashtra; **heavy to very heavy rainfall** likely at isolated places over Odisha, Coastal Karnataka, South Interior Karnataka, Kerala & Mahe and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalaya West Bengal & Sikkim, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Punjab, Haryana-Chandigarh-Delhi, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Thunderstorm with lightning and gusty wind (30-40 kmph)** very likely at isolated places over Andaman & Nicobar Islands and **with lightning** over Jharkhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, 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, south & west-central Bay of Bengal. **Squally weather speed reaching 40-45 kmph gusting to 50 kmph** likely along & off Kerala-Karnataka-south Maharashtra coasts, Gulf of Mannar, Lakshadweep area, south & central Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.

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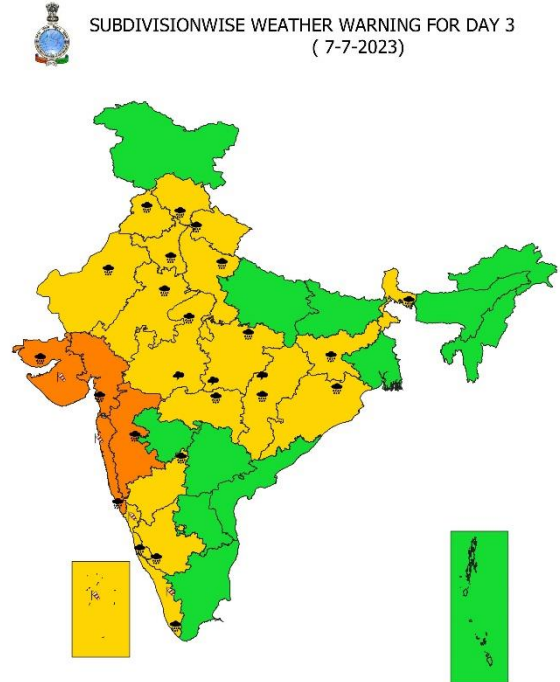
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**SUBDIVISIONWISE RAINFALL FORECAST FOR DAY 3
(7-7-2023)**



Legends
 □ DRY : No station reported rainfall ≥ 0.1 mm
 ■ ISOLATED : No. of raingauge stations reported rainfall ≥ 0.1 mm is 1-25% of total no. of reporting stations on the day
 ■ SCATTERED : No. of raingauge stations reported rainfall ≥ 0.1 mm is 26-50% of total no. of reporting stations on the day
 ■ FAIRLY WIDE SPREAD : No. of raingauge stations reported rainfall ≥ 0.1 mm is 51-75% of total no. of reporting stations on the day
 ■ WIDE SPREAD : No. of raingauge stations reported rainfall ≥ 0.1 mm is 75-100% of total no. of reporting stations on the day

**SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(7-7-2023)**

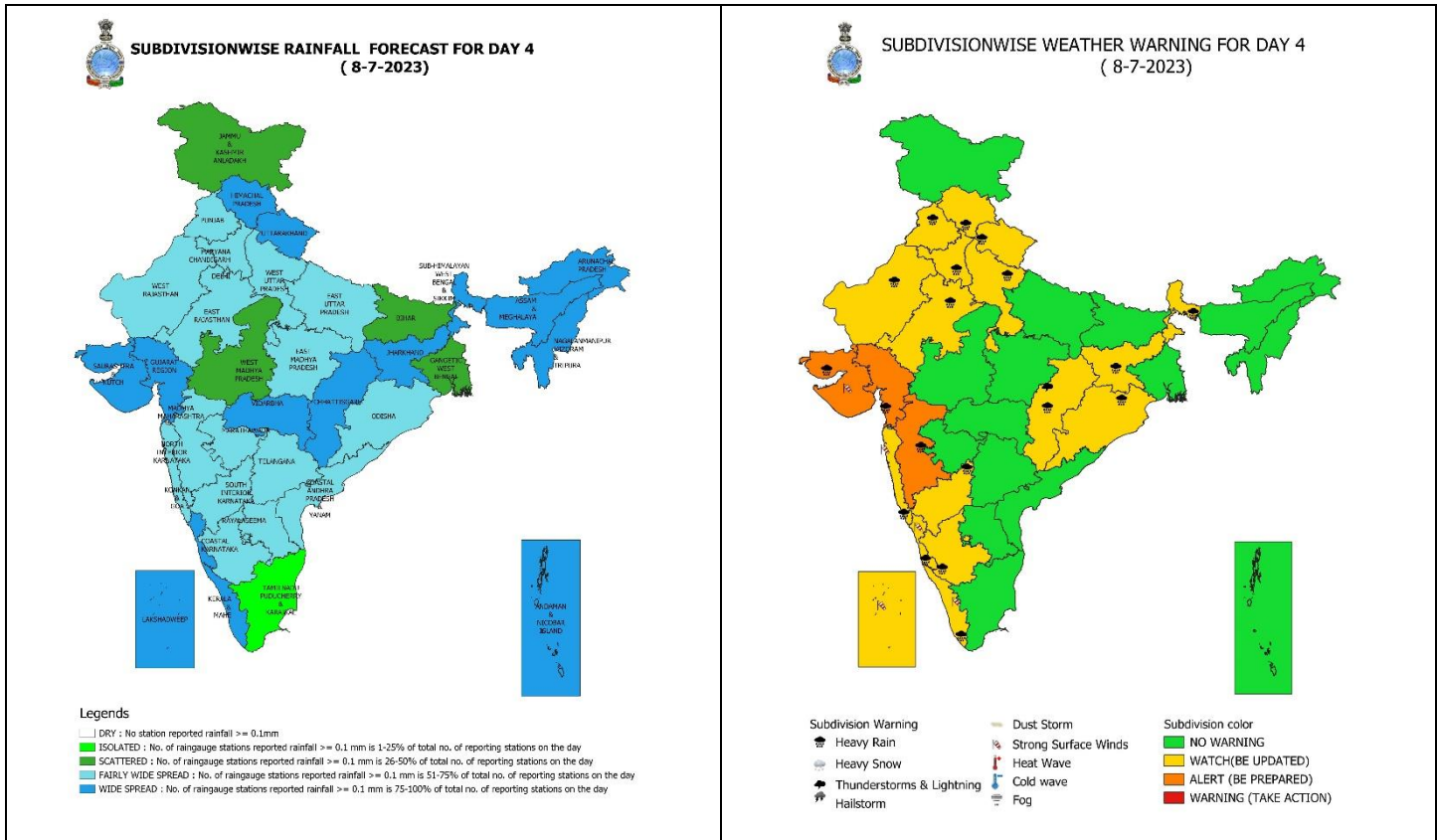


Subdivision Warning
 ■ Heavy Rain
 ■ Heavy Snow
 ■ Thunderstorms & Lightning
 ■ Hailstorm
 ■ Dust Storm
 ■ Strong Surface Winds
 ■ Heat Wave
 ■ Cold wave
 ■ Fog

Subdivision color
 ■ NO WARNING
 ■ WATCH (BE UPDATED)
 ■ ALERT (BE PREPARED)
 ■ WARNING (TAKE ACTION)

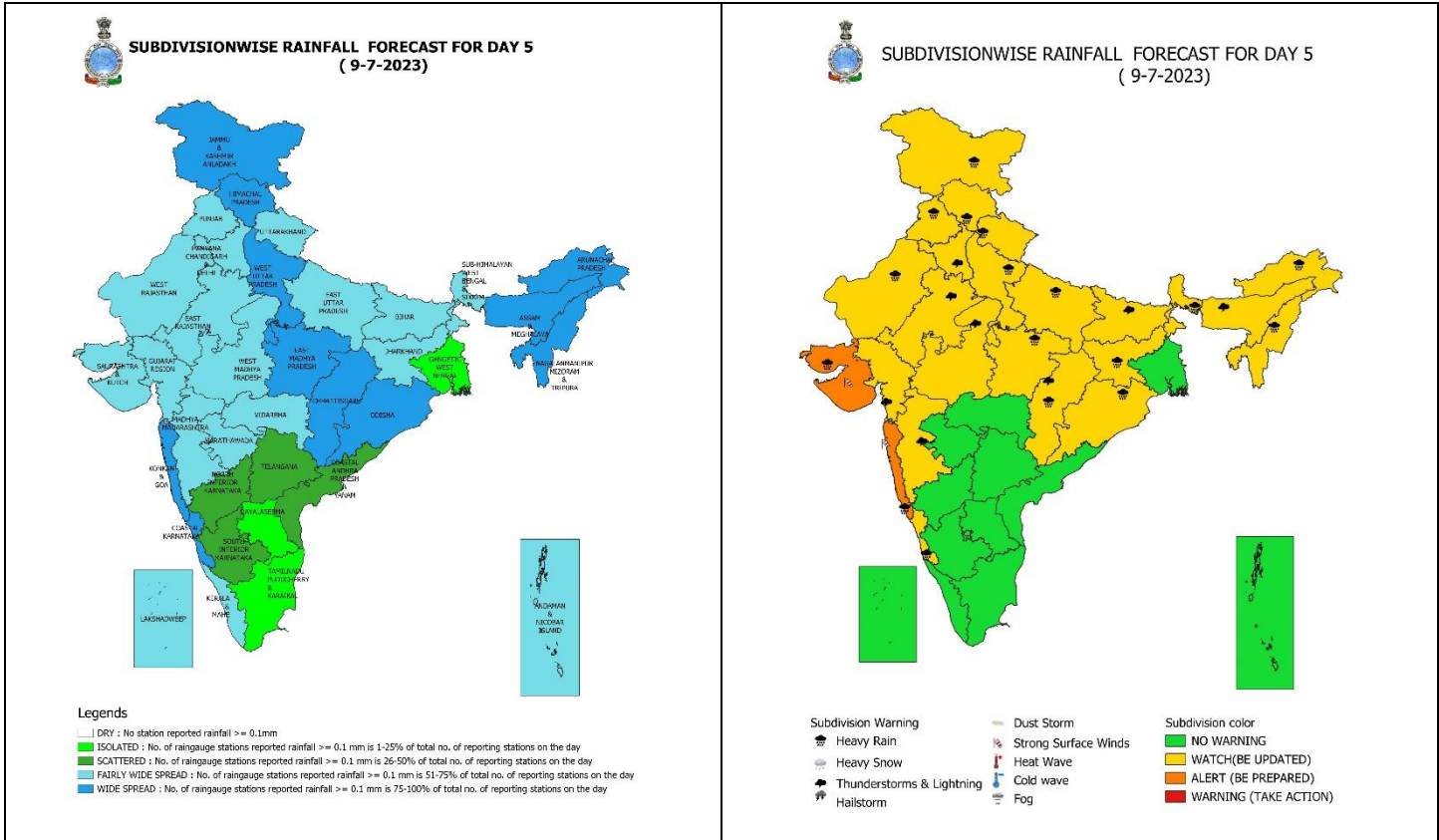
07 July (Day 3):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Gujarat state; **heavy to very heavy rainfall** at isolated places over Konkan & Goa, Madhya Maharashtra; **heavy rainfall** at isolated places over Sub-Himalaya West Bengal & Sikkim, Odisha, Jharkhand, West Uttar Pradesh, Uttarakhand, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Karnataka, Kerala & Mahe.
- ❖ **Thunderstorm with lightning** likely at isolated places over Madhya Pradesh, Chhattisgarh.
- ❖ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over Westcentral & Southwest and adjoining parts of Eastcentral Arabian Sea, south-west & west-central Bay of Bengal. **Squally weather speed reaching 40-45 kmph gusting to 50 kmph** likely along & off Kerala-Karnataka-Maharashtra-Gujarat coasts, Gulf of Mannar, Lakshadweep area. Fishermen are advised not to venture into these areas.



08 July (Day 4):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Gujarat state, Madhya Maharashtra, Konkan & Goa; **heavy rainfall** at isolated places over Sub-Himalaya West Bengal & Sikkim, Odisha, Jharkhand, West Uttar Pradesh, Uttarakhand, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Chhattisgarh, Karnataka, Kerala & Mahe.
- ❖ **Thunderstorm with lightning** likely at isolated places over Chhattisgarh.
- ❖ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over Westcentral & Southwest and adjoining parts of Eastcentral Arabian Sea, south-west & west-central Bay of Bengal. **Squally weather speed reaching 40-45 kmph gusting to 50 kmph** likely along & off Kerala-Karnataka-Maharashtra-Gujarat coasts, Gulf of Mannar, Lakshadweep area. Fishermen are advised not to venture into these areas.



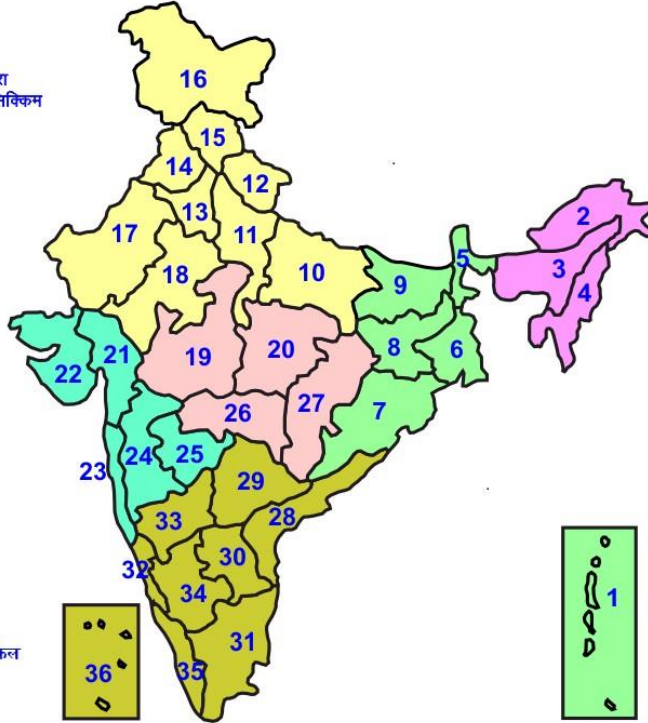
09 July (Day 5):

- ❖ **Heavy to very heavy rainfall** likely at isolated places over Saurashtra & Kutch, Konkan & Goa; **heavy rainfall** at isolated places over Sub-Himalaya West Bengal & Sikkim, Odisha, Jharkhand, Uttar Pradesh, Uttarakhand, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, West Rajasthan, Chhattisgarh, Coastal Karnataka, East Madhya Pradesh, Arunachal Pradesh, Nagaland & Manipur.
- ❖ **Thunderstorm with lightning** likely at isolated places over Chhattisgarh, Haryana-Chandigarh-Delhi, Madhya Maharashtra, Gujarat region, Assam & Meghalaya, Bihar, East Rajasthan and West Madhya Pradesh.
- ❖ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph likely over Westcentral & Southwest and adjoining parts of Eastcentral Arabian Sea, south-west & west-central Bay of Bengal. **Squally weather speed reaching 40-45 kmph gusting to 50 kmph** likely along & off Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.



LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 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

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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

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LEGENDS

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Rain/ Snow *

Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm*
Extremely Heavy: > 204.4 mm/cm *



Heat Wave

When maximum temperature of a station reaches $\geq 40^\circ\text{C}$ for plains and $\geq 30^\circ\text{C}$ for hilly regions
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .
Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^\circ\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^\circ\text{C}$.
Severe Heat Wave: When actual maximum temperature $\geq 47^\circ\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^\circ\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^\circ\text{C}$



Warm Night

When maximum temperature remains 40°C

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



Cold Wave

When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^\circ\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^\circ\text{C}$
Severe Cold Wave: When Minimum Temperature is $\leq 2.0^\circ\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^\circ\text{C}$ & actual Minimum Temperature is $\leq 15^\circ\text{C}$



Cold Day

When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions
Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^\circ\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres
Dense Fog: when the visibility between 50- 200 metres
Very Dense Fog: when the visibility < 50 metres



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

Air temperature $\leq 4^\circ\text{C}$ (over Plains)



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph
Severe: Wind speed 62-87 kmph
Very Severe: Wind speed > 87 kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)

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