

Thursday, August 1, 2024
Time of Issue: 1430 hours IST
(MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems

- ✓ The **Monsoon trough** is active and near of its normal position at mean sea level. It is likely to persist near its normal position during next 4-5 days.
- ✓ The **off-shore trough** at mean sea level runs along South Gujarat to Kerala coast.
- ✓ A **cyclonic circulation** over Gangetic West Bengal & adjoining south Bangladesh in lower & middle tropospheric tilting southwards with height and a **trough** from above cyclonic circulation to northeast Bihar in lower tropospheric levels.
- ✓ A **cyclonic circulation** lies over northeast Rajasthan & neighbourhood in lower tropospheric levels.
- ✓ A **trough** runs from West Uttar Pradesh to cyclonic circulation over Gangetic West Bengal in lower & middle tropospheric levels.
- ✓ A **cyclonic circulation** lies over Punjab & neighbourhood in lower & middle tropospheric levels.

Forecast & Warnings:

❖ West & Central India

- ✓ Fairly widespread to widespread light to moderate rainfall **accompanied with thunderstorm & lightning** very likely over the region during next 5 days.
- ✓ **Isolated extremely heavy rainfall very likely over Madhya Maharashtra during 01st-03rd August; East Madhya Pradesh on 02nd & 03rd; Konkan & Goa, West Madhya Pradesh and Gujarat Region on 03rd August.**
- ✓ **Heavy to very heavy rainfall very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Gujarat Region during 01st-05th; Madhya Pradesh during 01st-04th; Vidarbha, Chhattisgarh during 01st-03rd and Saurashtra & Kutch on 03rd August.**
- ✓ **Heavy rainfall** very likely at isolated places over Marathwada on 03rd and Saurashtra & Kutch on 04th August.

❖ Northwest India

- ✓ Fairly widespread to widespread light to moderate rainfall **accompanied with thunderstorm & lightning** very likely over Jammu-Kashmir, Himachal Pradesh, Uttarakhand; scattered to fairly widespread rainfall over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and Rajasthan during the week.
- ✓ **Isolated very heavy rainfall also likely over Himachal Pradesh, Punjab, Haryana-Chandigarh, West Uttar Pradesh, West Rajasthan on 01st; Uttarakhand during 01st-03rd; East Rajasthan during 01st-04th August.**
- ✓ Isolated **heavy rainfall** very likely over Jammu-Kashmir and Rajasthan during 01st-05th; Himachal Pradesh and Uttarakhand during 01st-07th; Uttar Pradesh during 01st - 03rd, 6th & 7th; Punjab, Haryana-Chandigarh on 01st & 02nd August.

❖ South Peninsular India:

- ✓ Fairly widespread to widespread light to moderate rainfall over Coastal Karnataka, Lakshadweep and Kerala & Mahe, Karnataka and isolated to scattered rainfall over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema during next 5 days.
- ✓ **Isolated extremely heavy rainfall very likely over Coastal Karnataka on 01st August.**
- ✓ **Very heavy rainfall very likely at isolated places over South Interior Karnataka 01st & 02nd; Kerala on 01st and Coastal Karnataka on 02nd August.**
- ✓ **Heavy rainfall** very likely at isolated places over Coastal & South Interior Karnataka during 01st-04th; Kerala & Mahe on 02nd & 03rd; Tamil Nadu, Telangana on 01st August and North Interior Karnataka on 01st & 02nd August.

❖ East & Northeast India

- ✓ Fairly widespread to widespread light to moderate rainfall **accompanied with thunderstorm, lightning** very likely over East & Northeast India during next 5 days.
- ✓ **Very heavy rainfall very likely at isolated places over Jharkhand, Odisha, Gangetic West Bengal on 01st; Assam & Meghalaya on 01st & 02nd; Manipur, Mizoram on 01st and Sub-Himalayan West Bengal & Sikkim on 05th August.**
- ✓ Isolated **heavy rainfall** very likely over Jharkhand, Odisha, Gangetic West Bengal on 01st & 02nd August; Bihar, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura during 01st-07th August.

Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most** places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Odisha, Konkan & Goa, Kerala & Mahe, Lakshadweep and Coastal Karnataka; **at many places** over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, West Madhya Pradesh, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Saurashtra & Kutch, Telangana and South Interior Karnataka; **at a few places** over West Rajasthan, Gujarat Region, Coastal Andhra Pradesh & Yanam and North Interior Karnataka; **at isolated places** over Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Heavy rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy rainfall** with **extremely heavy rainfall** occurred at isolated places over Uttarakhand, Coastal Karnataka; **Heavy to very heavy rainfall** at isolated places over Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, East Uttar Pradesh, Konkan & Goa, Madhya Maharashtra, Odisha, Gangetic West Bengal, Bihar, Jharkhand, South Interior Karnataka; **Heavy rainfall** at isolated places over Jammu & Kashmir, West Uttar Pradesh, Tamil Nadu, Kerala, Chhattisgarh, Marathwada, North Interior Karnataka, Arunachal Pradesh, Assam & Meghalaya and Tripura.
- ❖ **Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today):** (in cm): **Uttarakhand:** Haripur (Dehradun)24, Roshnabad (Haridwar) 21, Dehradun (Dehradun) 17, Haridwar (Haridwar)15, Jollygrant (Dehradun) 12, Narendra Nagar (Tehri Garhwal) 11, **Coastal Karnataka:** Karkala (dist Udipi) 23, Ankola (dist Uttara Kannada) 20, Castle Rock (dist Uttara Kannada) 20, Siddapura (dist Udipi) 17, Mulki (dist Dakshina Kannada) 16, Kadra (dist Uttara Kannada) 16, Dharmasthala (dist Dakshina Kannada) 15, Belthangadi (dist Dakshina Kannada) 15, Kundapur (dist Udipi) 15, Gokarna (dist Uttara Kannada) 15, Kumta (dist Uttara Kannada) 14, Shirali Pto (dist Uttara Kannada) 13, Gersoppa (dist Uttara Kannada) 13, Manki (dist Uttara Kannada) 13, Karwar Obsy (dist Uttara Kannada) 12, Uppinangadi (dist Dakshina Kannada) 11, Honavar Obsy (dist Uttara Kannada) 11, **Himachal Pradesh:** Palampur (dist Kangra) 21, Chuari (dist Chamba) 20, Dharmasala (dist Kangra) 18, Jogindarnagar (dist Mandi) 16, Dharmshala Aws (dist Kangra) 15, Kangra Aero (dist Kangra) 15, Sujampur Tira (dist Hamirpur) 14, Baijnath (dist Kangra) 13, Paonta (dist Sirmaur) 12, **Konkan & Goa:** Quepem (dist South Goa) 20, Sanguem (dist South Goa) 17, Ponda (dist North Goa) 14, Mormugao - Pmo Imd (dist South Goa) 14, Margao (dist South Goa) 14, Panjim - Imd Obsy (dist North Goa) 12, Dodamarg (dist Sindhudurg) 12, **Haryana:** Ambala Cantt (dist Ambala) 18, Ambala (dist Ambala) 14, Mulana (dist Ambala) 13, Nahar Rev (dist Rewari) 13, Kosli (dist Rewari) 13, Gurgaon Aws (dist Gurgaon) 12, Ambala Rev (dist Ambala) 11, Jhirka (dist Nuh) 11, Sahlawas (dist Jhajjar) 11, Gurgaon Rev (dist Gurgaon) 11, **East Madhya Pradesh:** Sleenanabad (dist Katni) 17, Bichhia (dist Mandla) 17, Umariyapan (dist Katni) 16, Samnapur (dist Dindori) 11, Sihora (dist Jabalpur) 11, Amarpur (dist Dindori) 11, Narayanganj (dist Mandla) 10, Gadarwara (dist Narsinghpur) 9, Matiyari (dist Mandla) 9, Mehadwani (dist Dindori) 9, Bilaspur (dist Umariya) 9, Dheemakheda (dist Katni) 9, Buxwaha (dist Chhatrapur) 8, Mohgaon (dist Mandla) 8, Jaitpur (dist Shahdol) 7, Jaisingh Nagar (dist Shahdol) 7, Shahgarh (dist Sagar) 7, **East Rajasthan:** Jaipur Tehsil (dist Jaipur) 17, Chomu (dist Jaipur) 16, Karauli (dist Karauli) 16, Jaipur Aero (dist Jaipur) 16, Niwai (dist Tonk) 14, Bonli (dist Sawai Madhopur) 14, Kotkasim Sr (dist Alwar) 13, Phagi (dist Jaipur) 13, Ramgarhshekhtan (dist Sikar) 13, Sanganer Tehsil Sr (dist Jaipur) 13, Bahadurpur (dist Alwar) 13, Alwar (dist Alwar) 12, **South Interior Karnataka:** Agumbe Emo (dist Shivamogga) 17, Bhagamandala (dist Kodagu) 11, Linganamakki Hms (dist Shivamogga) 7, **East Uttar Pradesh:** Mahsi (dist Bahraich) 16, Mohammedabad (Y) (dist Ghazipur) 13, Muhammadi (dist Kheri) 11, Nanpara (dist Bahraich) 9, Nighasan (dist Kheri) 9, **Jharkhand:** Bhawnathpur (dist Garhwa) 16, Majhgaon (dist West Singhbhum) 10, **Odisha:** Baripada (Mayurbhanj) 16, Jamda (Mayurbhanj) 13, Champua (Keonjhar) 13, Chandua Kuliana (Mayurbhanj) 13, Betanati (Mayurbhanj) 13, Sarasakana (Mayurbhanj) 12, Rairangpur (Mayurbhanj) 12, **Punjab:** Pathankot Iaf (dist Pathankot) 16, Taran Taran (dist Tarn Taran) 14, Phangota (dist Pathankot) 12, **Delhi:** Green Field Ps (dist North East Delhi) 15, Sps Mayur Vihar (dist East Delhi) 14, President House (dist New Delhi) 14, Najafgarh Aws (dist West Delhi) 11, Delhi Ridge (dist North Delhi) 11, Delhi University Obs (dist North Delhi) 11, Safdarjung (dist New Delhi) 11, Lodi Road Aws (dist New Delhi) 11, Lodi Road (dist New Delhi) 11, Delhi University Aws (dist North Delhi) 11, **Madhya Maharashtra:** Shahuwadi (dist Kolhapur) 14, Mahabaleshwar- Imd Obsy (dist Satara) 9, Chandgad (dist Kolhapur) 9, **West Rajasthan:** Taranagar / Reni (dist Churu) 13, Churu (dist Churu) 13, Churu Tehsil (dist Churu) 12, Ratangarh (dist Churu) 11, Sardarshahar (dist Churu) 10, Bhadra (dist Hanumangarh) 8, Nawa (dist Nagaur) 7, **West Madhya Pradesh:** Pichhore (dist Shivpuri) 12, Ghatigaon (dist Gwalior) 11, Khaniyadana (dist Shivpuri) 11, Alipur(jaura) (dist Morena) 11, Badoda (dist Sheopor) 11, **Kerala:** Vadakara AWS (Kozhikode district) 11, Vadakara (Kozhikode district) 10; **Jammu & Kashmir:** Jammu Aero (dist Jammu) 11, Chatha_agro Aws (dist Jammu) 9, Burmal Arg (dist Kathua) 8, **West Uttar Pradesh:** Sardhana (dist Meerut) 10, Kalpi Tehsil (dist Jalaun) 9, Baghpat (dist Baghpat) 8, **Gangetic West Bengal:** Jhargram (pto) (dist Jhargram) 10, Harinkhola (dist Hooghly) 8, **Assam & Meghalaya:** Ranganadi Nt Xing (dist Lakhimpur) 10, N.lakhimpur/lilabari (dist Lakhimpur) 7, **Chhattisgarh:** Doundi (dist Balod) 9, **North Interior Karnataka:** Londa (dist Belagavi) 8, **Arunachal Pradesh:** Pasighat_ Aero (dist East Siang) 8, **Tripura:** Bagafa (dist South Tripura) 8, **Tamil Nadu:** The Nilgiris-7; **Marathwada:** Palam (dist Parbhani) 7,
- ❖ **Minimum Temperature Departures (as on 01-08-2024):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Andaman & Nicobar Islands; **above normal (1.6°C to 3.0°C)** at a few places over Rajasthan and Rayalaseema; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Assam & Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Madhya Maharashtra. These are **below normal (-1.6°C to -3.0°C)** at isolated places over Haryana-Chandigarh-Delhi and Gangetic West Bengal and **near normal** over rest parts of the country. Today, **the lowest minimum temperature of 21.0°C** is reported at **Narsinghpur (East Madhya Pradesh)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 31-07-2024):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya, Arunachal Pradesh and Coastal Andhra Pradesh & Yanam; at isolated places over Haryana-Chandigarh-Delhi, Punjab, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Gujarat Region; **above normal (1.6°C to 3.0°C)** at many places over Bihar, Gangetic West Bengal, Rajasthan; at a few places over Saurashtra & Kutch and West Madhya Pradesh; at isolated places over Himachal Pradesh, Konkan & Goa, Madhya Maharashtra and Telangana. These were **below normal (-1.6°C to -3.0°C)** at a few places over Odisha, East Madhya Pradesh, East Uttar Pradesh, Chhattisgarh and Kerala & Mahe and **near normal** over rest parts of the country. Yesterday, **the highest Maximum Temperature of 42.2°C** was reported at **Sri Ganganagar (West Rajasthan)** over the country.

Meteorological Analysis (Based on 0830 hours IST)

- ❖ The **Monsoon trough** at mean sea level now passes through Sri Ganganagar, Rohtak, Hardoi, Varanasi, Dehri, Bankura, Canning and thence southeastwards to northeast Bay of Bengal.
- ❖ The **cyclonic circulation** over Gangetic West Bengal & neighbourhood now lies over Gangetic West Bengal adjoining south Bangladesh and extends upto 7.6 km above mean sea level tilting southwards with height.
- ❖ A **trough** from above cyclonic circulation over Gangetic West Bengal adjoining south Bangladesh to northeast Bihar at 0.9 km above mean sea level.
- ❖ The **cyclonic circulation** over north Arabian sea now lies over northeast Arabian sea and adjoining Saurashtra at 4.5 km above mean sea level tilting southwards with height.
- ❖ A **cyclonic circulation** lies over northeast Rajasthan & neighbourhood at 0.9 km above mean sea level.
- ❖ A **trough** from West Uttar Pradesh to cyclonic circulation over Gangetic West Bengal between 1.5 & 3.1 km above mean sea level.
- ❖ A **cyclonic circulation** lies over Punjab & neighbourhood between 3.1 & 5.8 km above mean sea level.
- ❖ The **off-shore trough** at mean sea level along South Gujarat to Kerala coast persists.
- ❖ The **cyclonic circulation** over south Assam extending upto 0.9 km above mean sea level has become less marked.
- ❖ The **shear zone** roughly along 20°N between 4.5 & 5.8 km above mean sea level tilting southwards with height has become less marked.

Weather Forecast for next 7 days (Upto 0830 hours IST of 08th August, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Thunderstorm/lightning likely at isolated places over Western Himalayan Region, Northeast, West and South Peninsular India for next 4-5 days.
- ❖ No significant change in maximum temperatures very likely over most parts of the country.

Weather Outlook for subsequent 3 days (During 08th August - 10th August, 2024)

- ❖ Fairly widespread to widespread rainfall likely over most parts of the country except Tamil Nadu, Puducherry & Karaikal and Rayalaseema where isolated to scattered rainfall likely.

Table-1

7 Days Rainfall Forecast								
S. No.	Subdivision	01-Aug	02-Aug	03-Aug	04-Aug	05-Aug	06-Aug	07-Aug
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	WS	WS	WS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	FWS	FWS	FWS	FWS	FWS	WS	WS
3	ASSAM & MEGHALAYA	FWS	FWS	FWS	FWS	FWS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	WS	FWS	FWS	FWS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	WS	WS	WS	WS	WS	FWS
6	GANGETIC WEST BENGAL	WS	WS	FWS	FWS	WS	WS	WS
7	ODISHA	WS	FWS	SCT	SCT	FWS	FWS	FWS
8	JHARKHAND	WS	WS	FWS	FWS	FWS	WS	WS
9	BIHAR	FWS	FWS	FWS	FWS	WS	WS	FWS
10	EAST UTTAR PRADESH	FWS	FWS	SCT	SCT	SCT	SCT	SCT
11	WEST UTTAR PRADESH	FWS	FWS	FWS	SCT	SCT	SCT	SCT
12	UTTARAKHAND	WS	WS	FWS	SCT	SCT	FWS	FWS
13	HARYANA CHANDIGARH & DELHI	WS	SCT	SCT	ISOL	ISOL	SCT	SCT
14	PUNJAB	WS	SCT	SCT	SCT	ISOL	SCT	SCT
15	HIMACHAL PRADESH	WS	WS	WS	WS	WS	WS	FWS
16	JAMMU & KASHMIR AND LADAKH	WS	WS	WS	WS	WS	FWS	SCT
17	WEST RAJASTHAN	FWS	FWS	SCT	FWS	FWS	SCT	ISOL
18	EAST RAJASTHAN	WS	FWS	FWS	FWS	FWS	SCT	SCT
19	WEST MADHYA PRADESH	WS	WS	WS	WS	WS	FWS	FWS
20	EAST MADHYA PRADESH	WS	WS	WS	WS	FWS	FWS	FWS
21	GUJARAT REGION	FWS	FWS	WS	WS	FWS	FWS	FWS
22	SAURASHTRA & KUTCH	SCT	SCT	FWS	FWS	FWS	SCT	SCT
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	FWS	WS	WS	WS	FWS	SCT	SCT
25	MARATHAWADA	FWS	FWS	FWS	FWS	SCT	ISOL	ISOL
26	VIDARBHA	WS	WS	WS	WS	FWS	FWS	FWS
27	CHHATTISGARH	WS	WS	WS	FWS	FWS	FWS	FWS
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	ISOL	SCT	SCT	FWS	FWS
29	TELANGANA	FWS	SCT	SCT	SCT	SCT	SCT	SCT
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	ISOL	ISOL	SCT	SCT	SCT	SCT
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	FWS	FWS	FWS	FWS	SCT	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	FWS	FWS	FWS	SCT	SCT	SCT	SCT
35	KERALA & MAHE	WS	WS	WS	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	WS	WS	FWS	FWS	SCT	SCT	SCT

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

* Red colour warning does not mean "Red Alert", Red colour 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

Fig. 2: Departure of Maximum Temperatures

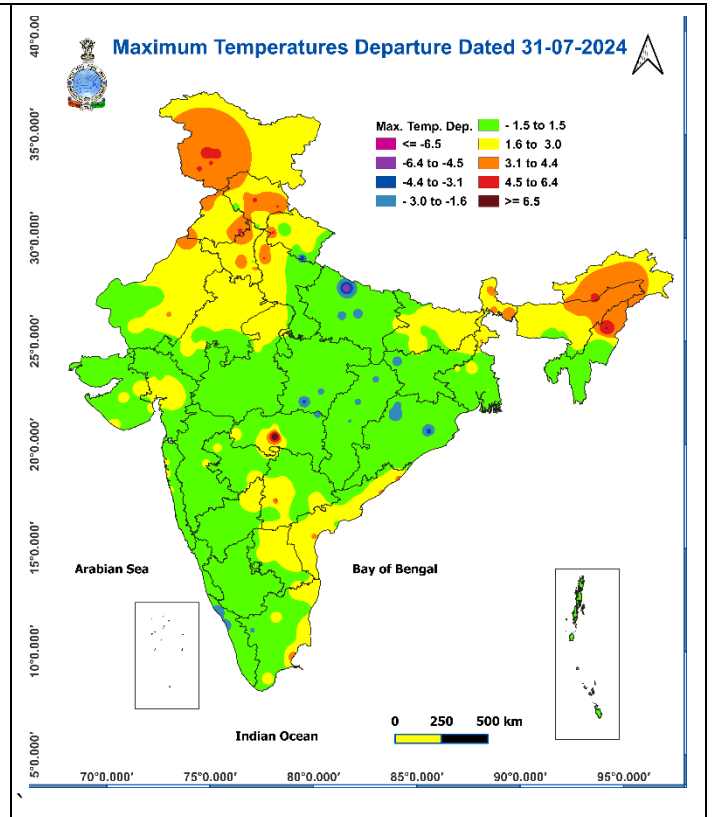
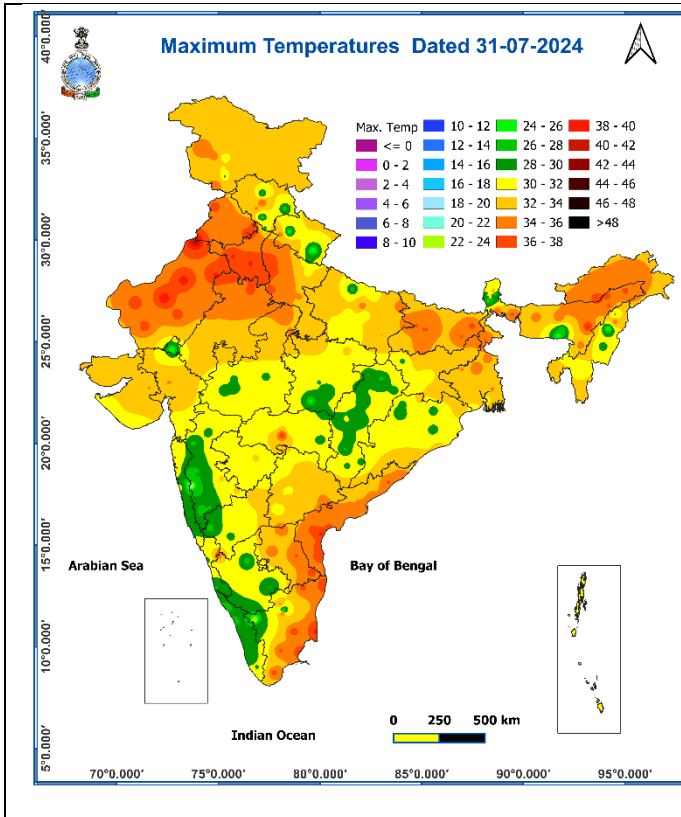


Fig. 3: Minimum Temperatures

Fig. 4: Departure of Minimum Temperatures

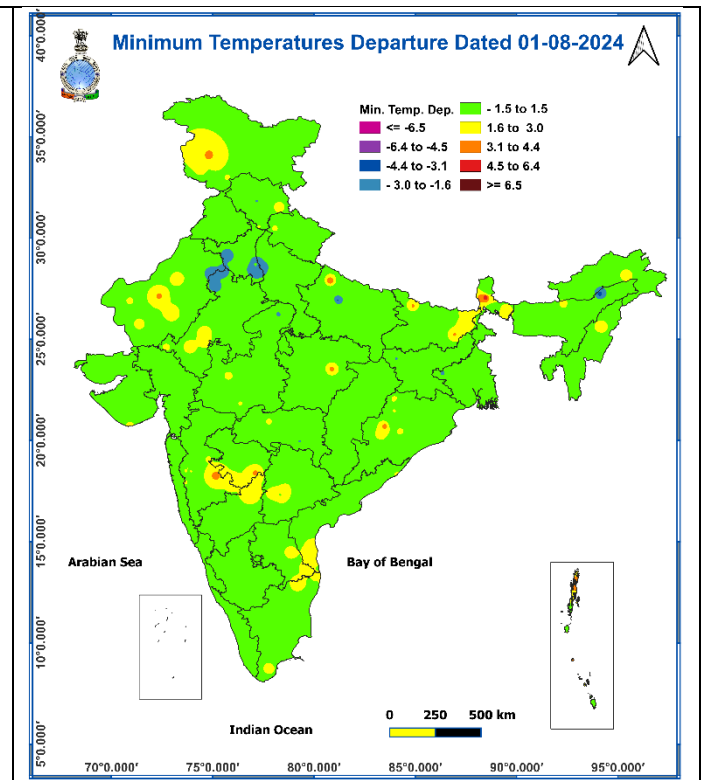
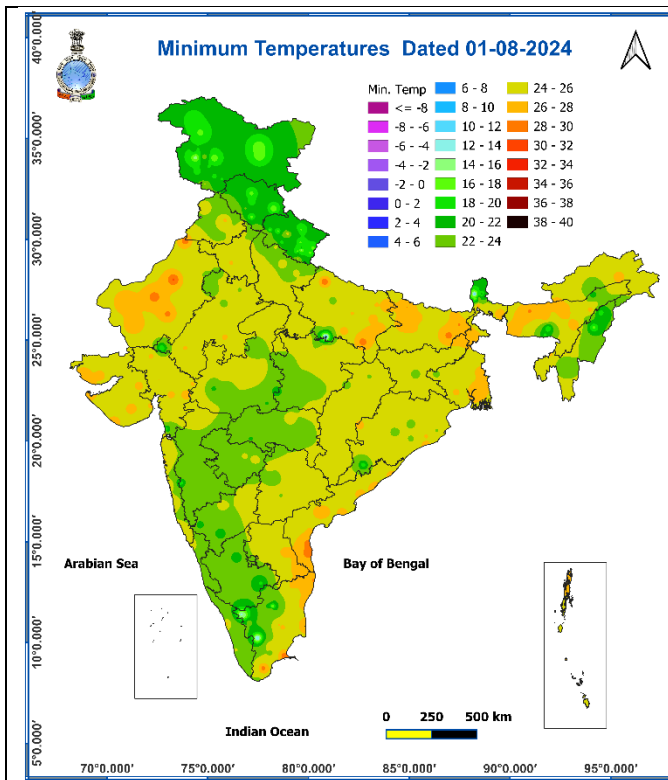
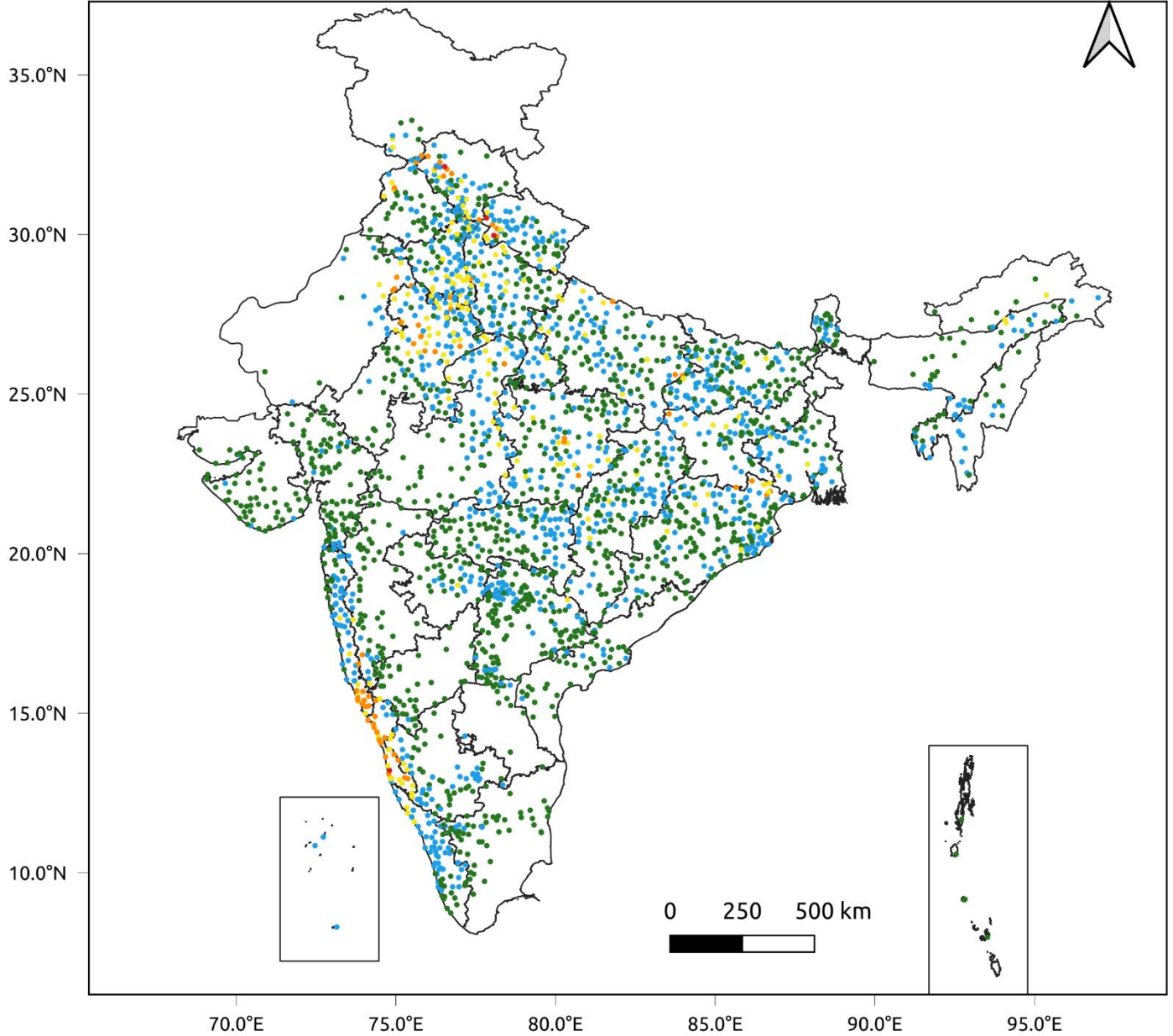


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

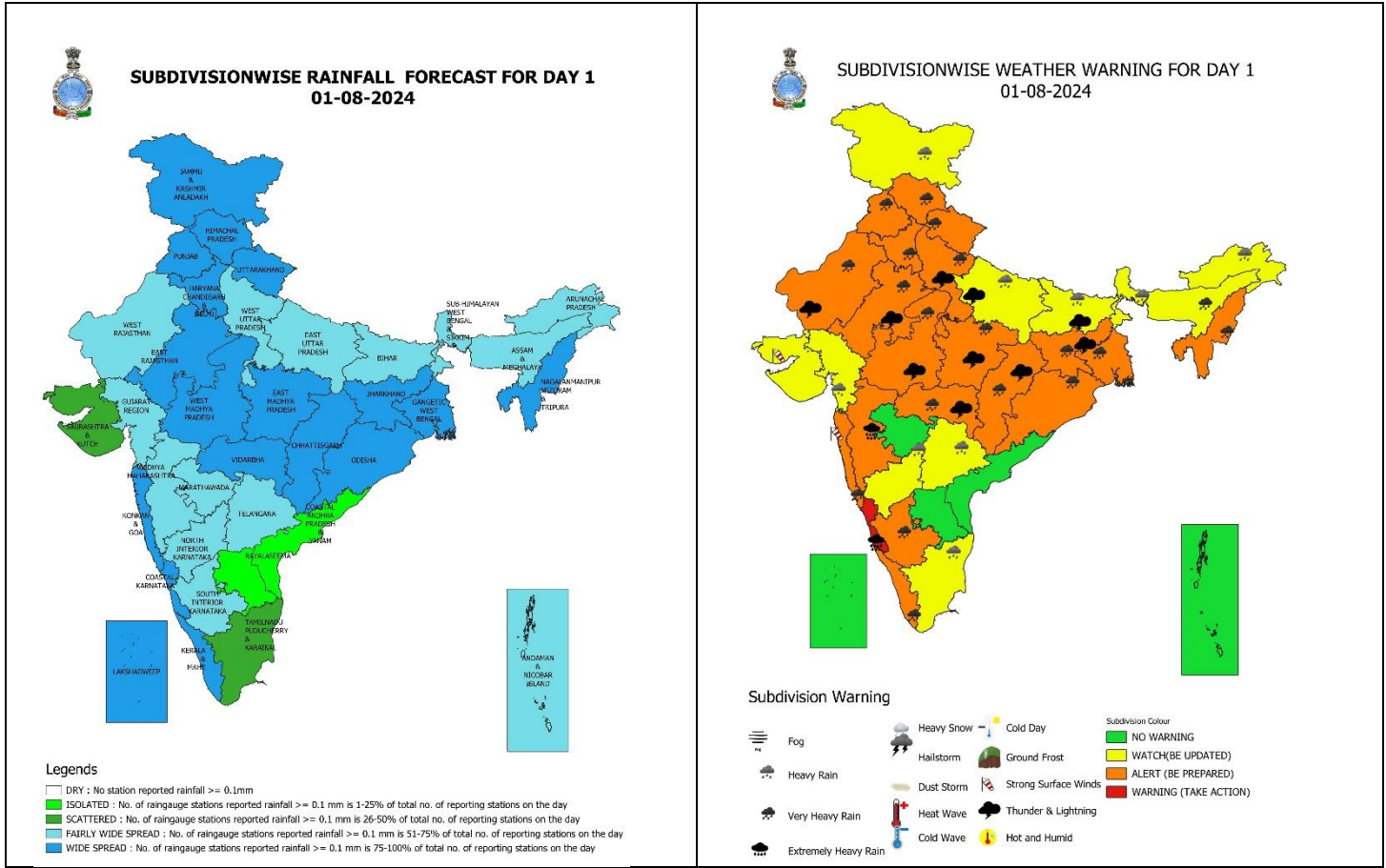


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 31-7-2024 to 0830 IST of 1-8-2024



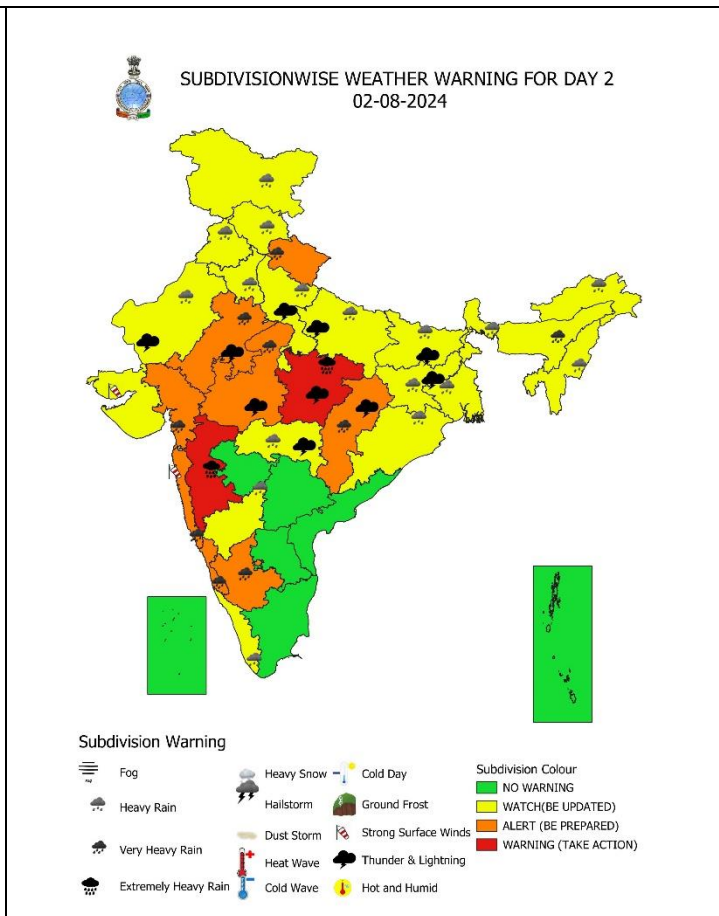
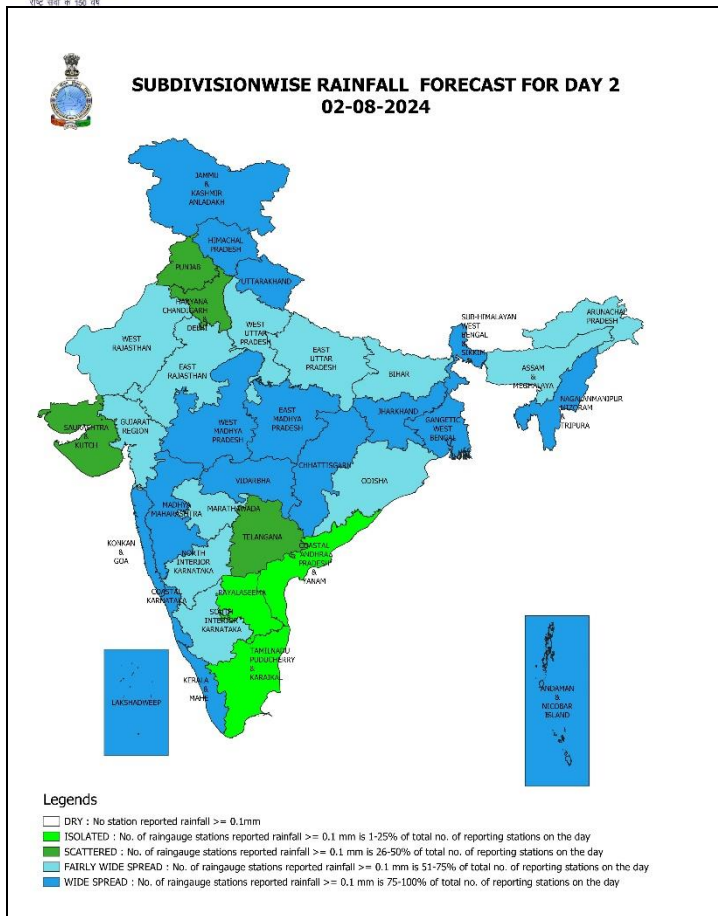
Legends

- 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)



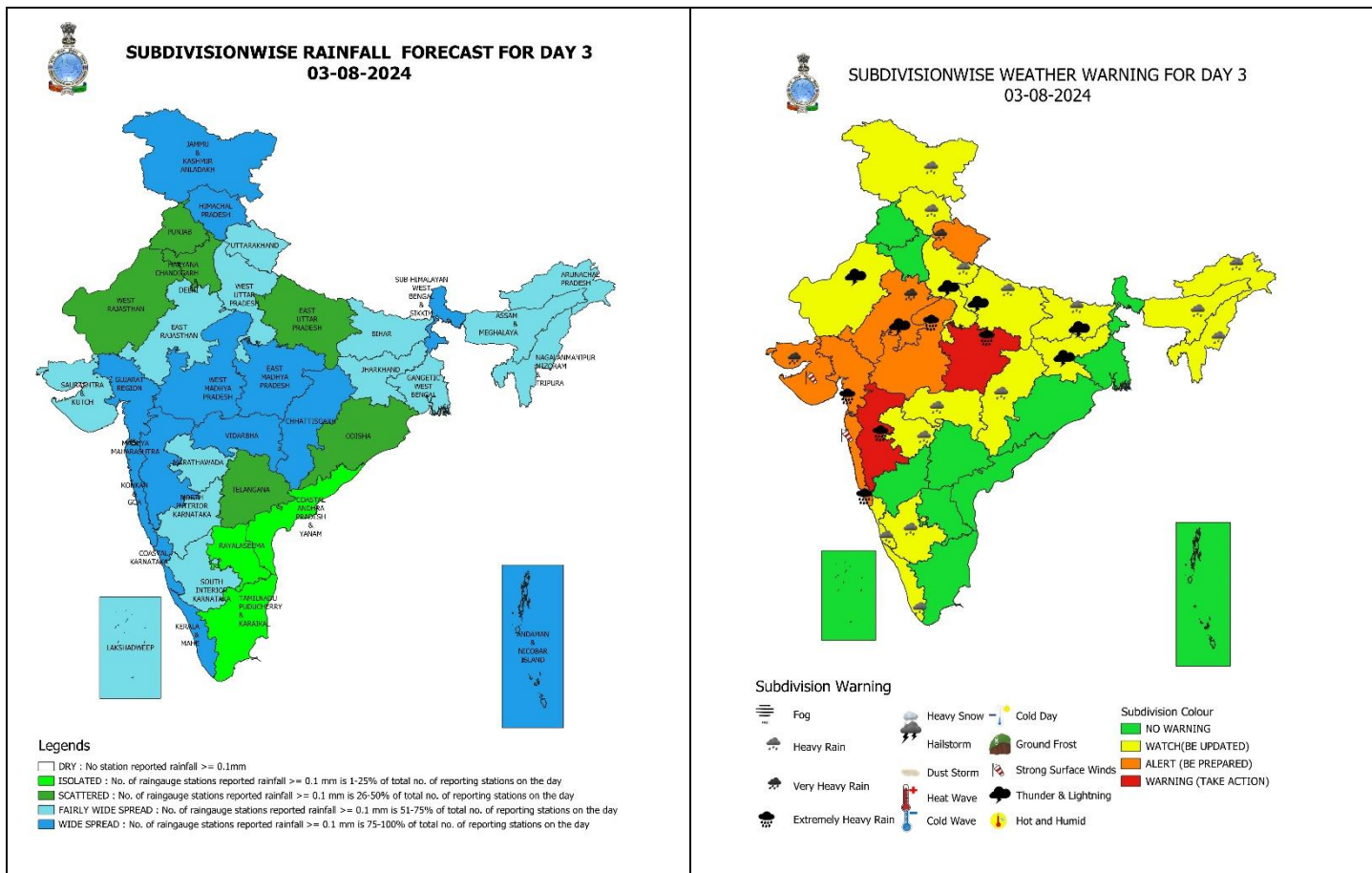
01 August (Day 1):

- ❖ **Heavy to very heavy rainfall with extremely heavy falls (> 20 cm)** very likely at isolated places over Madhya Maharashtra and Coastal Karnataka; **Heavy to very heavy rainfall (≥ 12 cm)** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha, Assam & Meghalaya, Mizoram, Konkan & Goa, Kerala & Mahe and South Interior Karnataka ; **Heavy rainfall (≥ 7 cm)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Telangana and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar and Jharkhand.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northeast Arabian sea, over most parts of eastcentral Arabian sea, many parts of westcentral Arabian sea, northern parts of southeast and adjoining southwest Arabian sea, along and off Gujarat, Maharashtra, Konkan, goa, Karnataka, Kerala coasts, over Lakshadweep area, gulf of Mannar, off Sri Lanka coast, over many parts of southwest bob & few parts of southeast bob, most parts of central bob and north bob. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over few parts over westcentral bob. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.



02 August (Day 2):

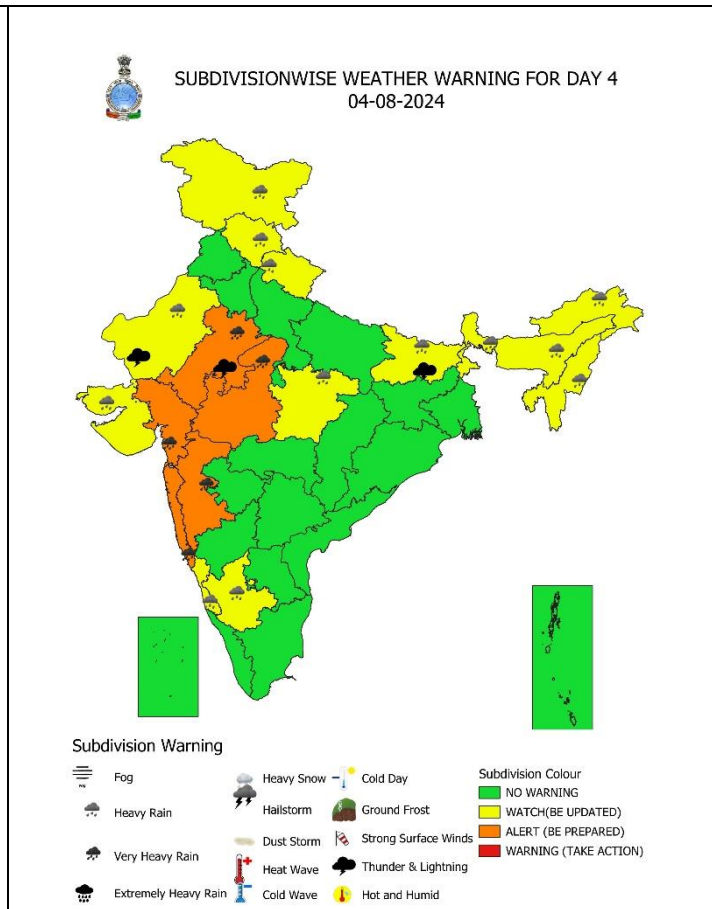
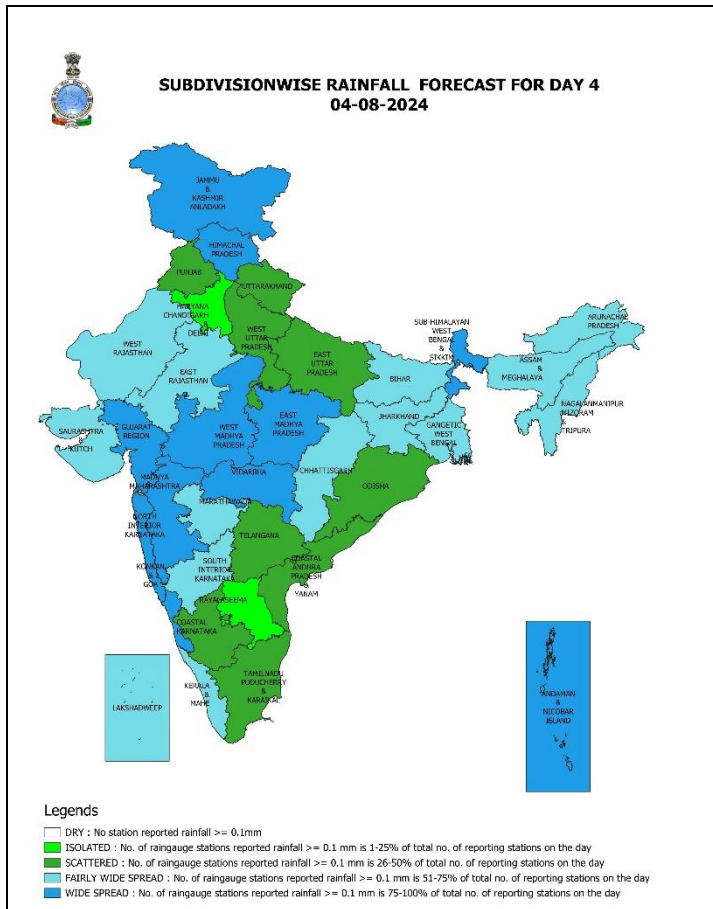
- ❖ **Heavy to very heavy rainfall with extremely heavy falls (> 20 cm)** at isolated places over East Madhya Pradesh and Madhya Maharashtra; **Heavy to very heavy rainfall (≥ 12 cm)** at isolated places over Uttarakhand, East Rajasthan, West Madhya Pradesh, Chhattisgarh, Assam & Meghalaya, Konkan & Goa, Gujarat Region, Coastal & South Interior Karnataka; **Heavy rainfall (≥ 7 cm)** at isolated places over Jammu-Kashmir, Himachal Pradesh, Punjab, Haryana-Chandigarh, Uttar Pradesh, West Rajasthan, Vidarbha, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Jharkhand and Bihar.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northeast and adjoining northwest Arabian sea, most parts of eastcentral Arabian sea, many parts of westcentral Arabian sea, along and off south Maharashtra, Konkan, goa, Karnataka coasts, gulf of Mannar, off Sri Lanka coast, over many parts of southwest bob & few parts of southeast bob, most parts of central bob and many parts of north bob. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Gujarat, north Maharashtra coasts, over few parts over westcentral bob. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.



03 August (Day 3):

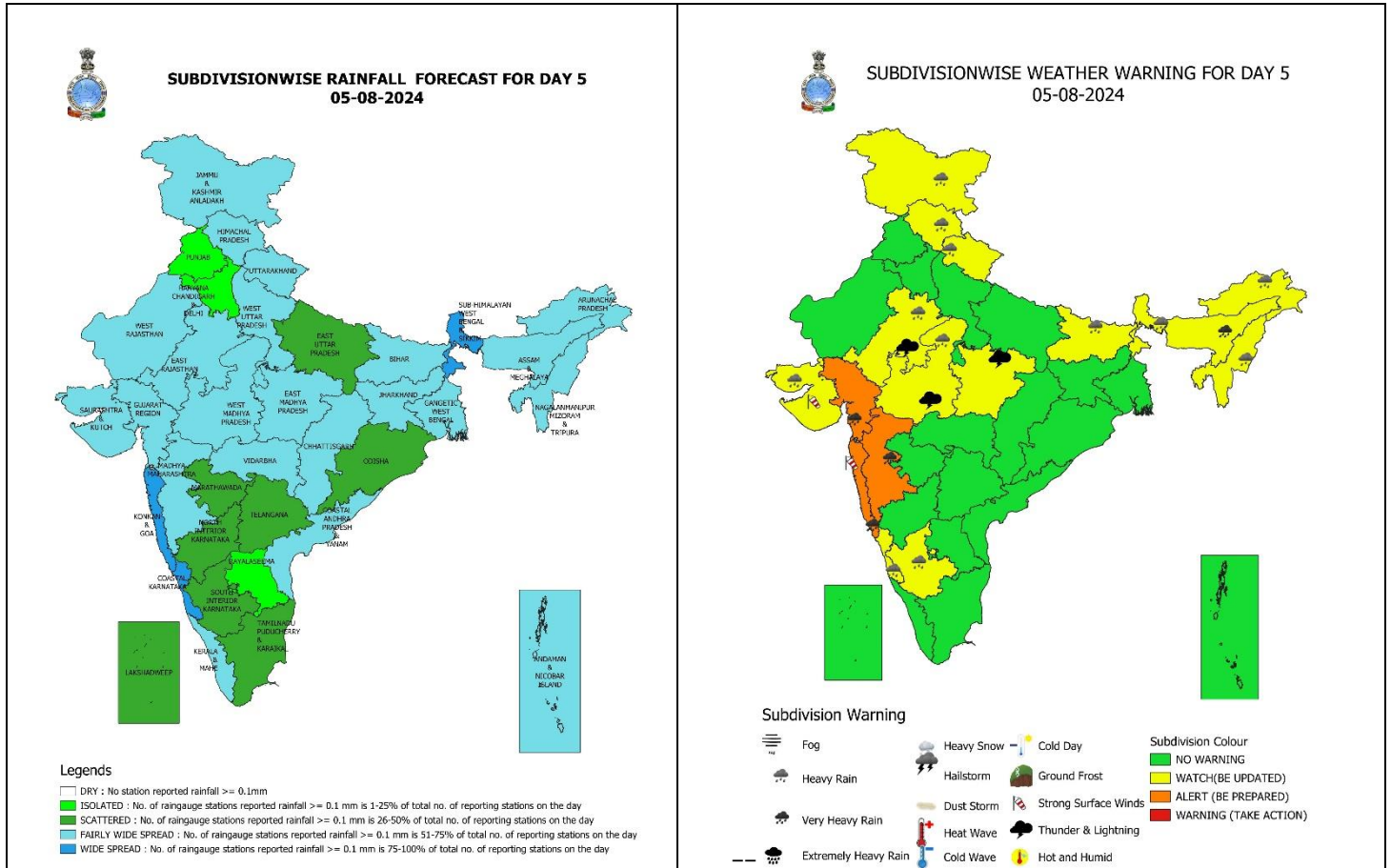
- ❖ **Heavy to very heavy rainfall with extremely heavy falls (> 20 cm)** likely at isolated places over Madhya Pradesh, Konkan & Goa, Madhya Maharashtra and Gujarat Region; **Heavy to very heavy rainfall (≥ 12 cm)** at isolated places over Uttarakhand, East Rajasthan and Saurashtra & Kutch; **Heavy rainfall (≥ 7 cm)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Vidarbha, Chhattisgarh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Kerala & Mahe and Coastal & South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Uttar Pradesh, Bihar and Jharkhand.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northeast and adjoining northwest Arabian sea, most parts of eastcentral Arabian sea, many parts of westcentral Arabian sea, along and off south Maharashtra, coast, gulf of Mannar, off Sri Lanka coast, over many parts of southwest bob & few parts of southeast bob, most parts of central bob and many parts of north bob. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Gujarat, north Maharashtra coasts, over few parts over westcentral bob. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.

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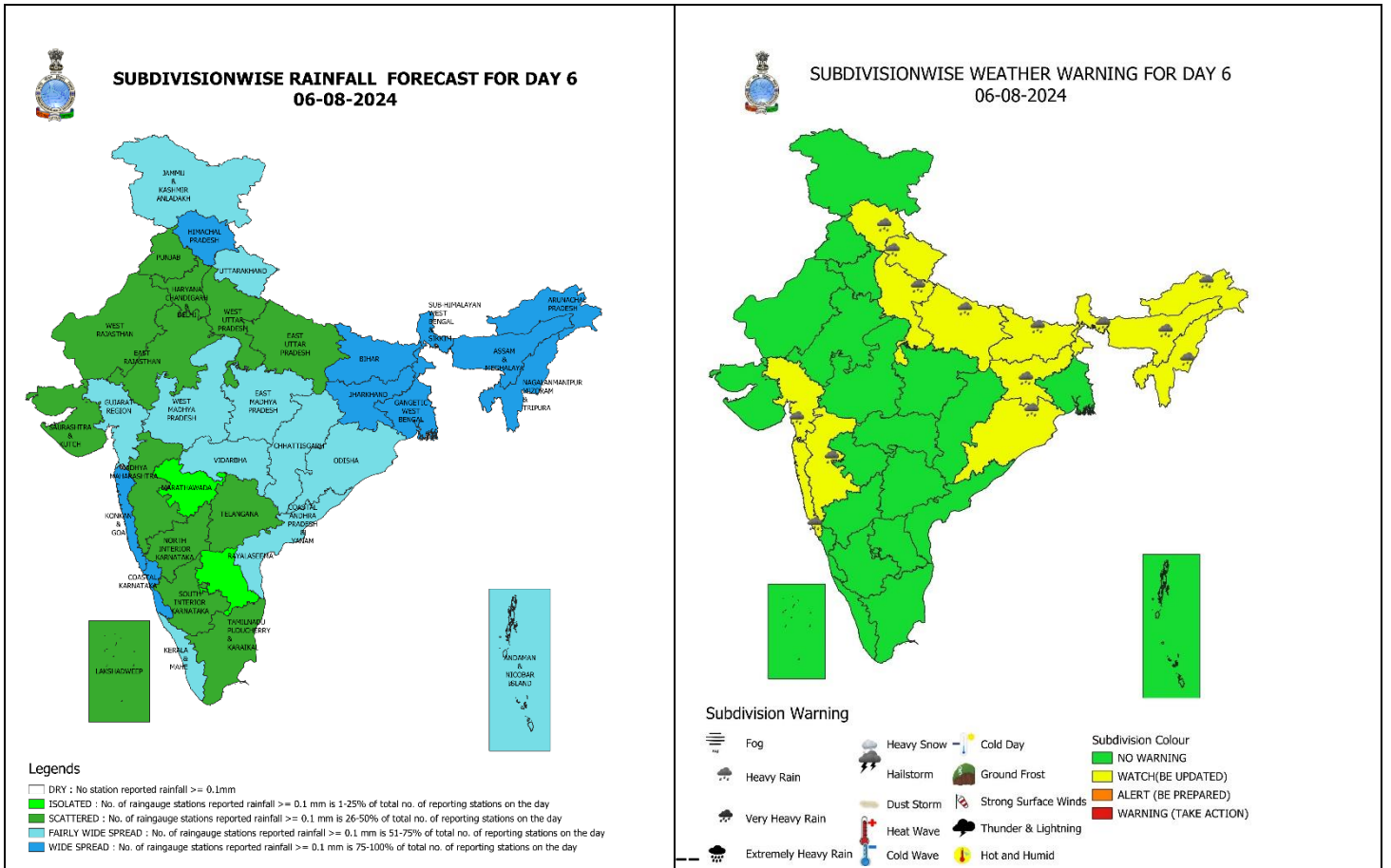
04 August (Day 4):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over East Rajasthan, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Gujarat Region; **Heavy rainfall (≥ 7 cm)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, West Rajasthan, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Coastal & South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Bihar.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northeast and adjoining northwest Arabian sea, most parts of eastcentral Arabian sea, many parts of westcentral Arabian sea, along and off south Maharashtra, coast, gulf of Mannar, off Sri Lanka coast, over many parts of southwest bob & few parts of southeast bob, most parts of central bob and many parts of north bob. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Gujarat, north Maharashtra coasts. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.



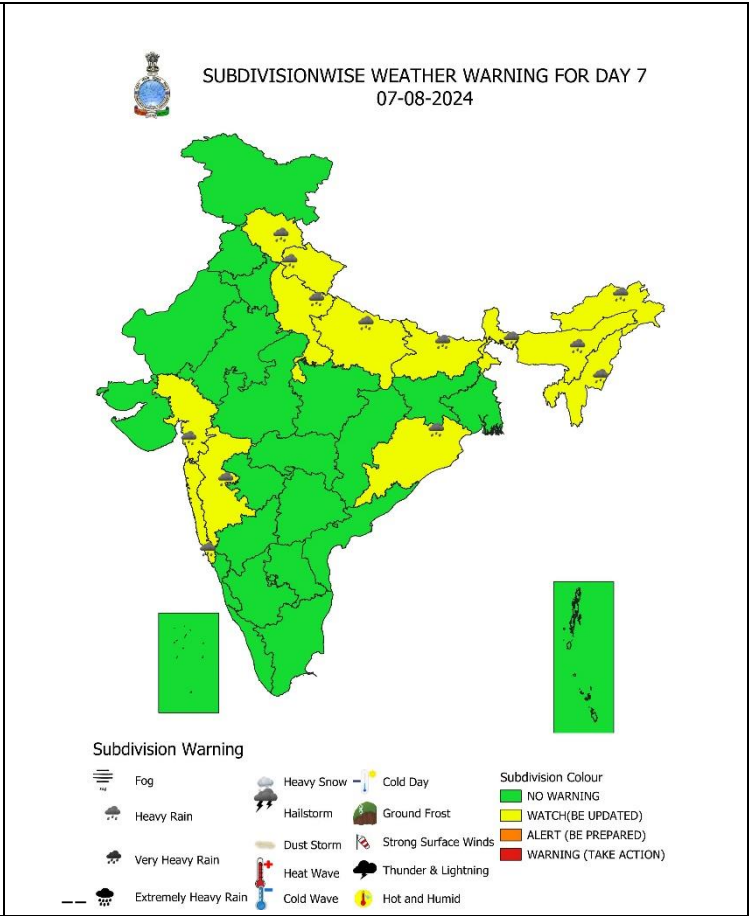
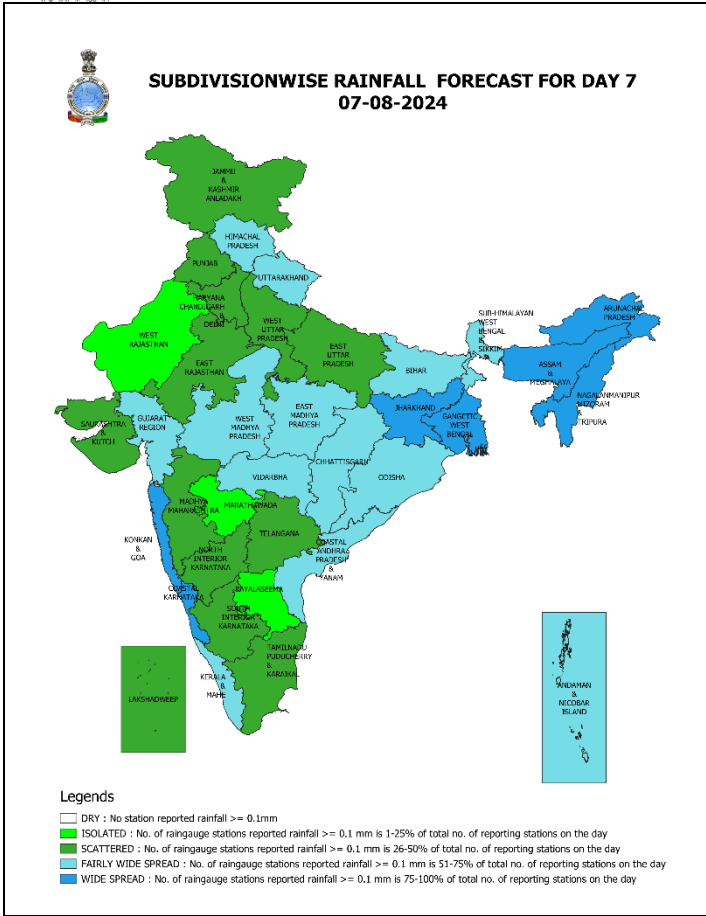
05 August (Day 5):

- ❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Madhya Maharashtra; **Heavy rainfall (≥ 7 cm)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Rajasthan, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Gujarat Region.
- ❖ **Thunderstorm accompanied with lightning** very likely at isolated places over Rajasthan and Bihar.
- ❖ **Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph** likely to prevail over northeast and adjoining northwest Arabian sea, most parts of eastcentral Arabian sea, many parts of westcentral Arabian sea, along and off south Maharashtra, coast, gulf of Mannar, off Sri Lanka coast, over many parts of southwest bob & few parts of southeast bob, most parts of central bob and many parts of north bob. **Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail along and off Gujarat, north Maharashtra coasts, over few parts over westcentral bob. **Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph** likely to prevail over central Arabian sea & adjoining areas of southwest Arabian sea, southern parts of north Arabian sea, along & off Somalia & Oman coasts. Fishermen are advised not to venture into these areas.



06 August (Day 6):

❖ **Heavy to very heavy rainfall (≥ 12 cm)** likely at isolated places over Uttarakhand; **Heavy rainfall (≥ 7 cm)** at isolated places over Himachal Pradesh, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Gujarat Region.

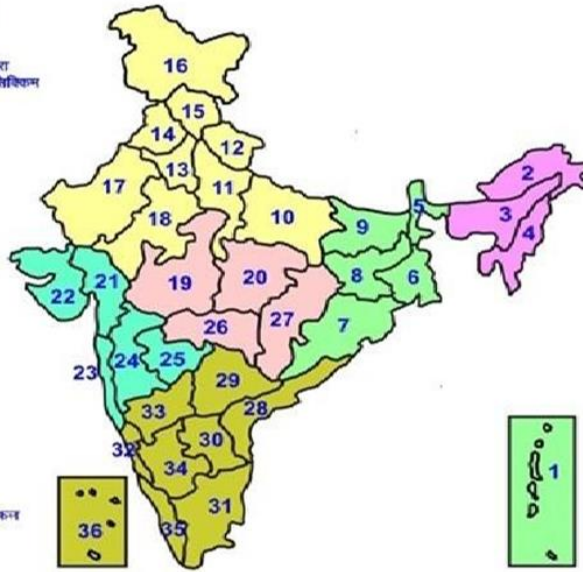


07 August (Day 7):

❖ **Heavy rainfall (≥ 7 cm)** likely at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Gujarat Region.

LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मनीपुर, मिजोरम और त्रिपुरा
- 5 उप-हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा, चंडीगढ़ 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 महाराष्ट्र
- 26 विदर्भ
- 27 उत्तरीय महाराष्ट्र
- 28 तटीय आंध्र प्रदेश एवं यानम
- 29 तेलंगाना
- 30 रायलसेमा
- 31 तमिलनाडु, पुदुचेरी एवं काराईकल
- 32 तटीय 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. Odisha
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

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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)