



#### National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Saturday, July 27, 2024 Time of Issue: 0800 hours IST (MORNING)

# ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

#### **Significant Weather Features:**

#### **Weather Systems**

- ✓ The Well Marked Low Pressure area over Gangetic West Bengal and adjoining northwest Bay of Bengal now lies over Gangetic West Bengal & adjoining north Odisha. The associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestwards with height. It is likely to move west-northwestwards during next 24 hours.
- ✓ The Monsoon trough is active and lies near to its normal position. It is likely to continue to remain near to its normal position during next 4-5 days.
- ✓ The shear zone lies along 18°N over Indian region in middle & upper tropospheric levels tilting southwards with height.
- ✓ The off-shore trough at mean sea level runs along west coast from South Gujarat to north Kerala coasts.

#### **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 Ghat areas of Madhya Maharashtra on 27th July.
- ✓ Very heavy rainfall very likely at isolated places over Madhya Pradesh, Chhattisgarh and Vidarbha on 27th; Konkan & Goa on 27th & 28th; Madhya Maharashtra on 28th; Saurashtra & Kutch on 28th & 29th; Gujarat Region during 28th 29th July.
- ✓ **Heavy rainfall** very likely at isolated places over Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Gujarat State during 27<sup>th</sup>-31<sup>st</sup>; Vidarbha, Chhattisgarh during 27<sup>th</sup> 28<sup>th</sup>; Marathwada on 27<sup>th</sup> July.

#### Northwest India

- ✓ Fairly widespread to widespread light to moderate rainfall **accompanied with thunderstorm & lightning** very likely over Himachal Pradesh, Uttarakhand, East Rajasthan; scattered to fairly widespread rainfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan during next 5 days.
- ✓ Isolated very heavy rainfall also likely over Uttarakhand on 27th & 29th; East Rajasthan during 27th 28th July.
- ✓ Isolated **heavy rainfall** very likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh during 27<sup>th</sup>-31<sup>st</sup>; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 29<sup>th</sup>; West Rajasthan during 27<sup>th</sup> 28<sup>th</sup>; Haryana-Chandigarh on 27<sup>th</sup>, 28<sup>th</sup> & 30<sup>th</sup>; Punjab on 30<sup>th</sup> July.

#### South Peninsular India:

- ✓ Scattered to fairly widespread light to moderate rainfall accompanied with thunderstorm & lightning very likely over Kerala & Mahe, Karnataka, Lakshadweep, Telangana and isolated to scattered rainfall over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal during next 5 days.
- ✓ Very heavy rainfall very likely at isolated places over Coastal & South Interior Karnataka on 27<sup>th</sup> July.
- ✓ **Heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka on 27<sup>th</sup>; Kerala & Mahe, Coastal & South Interior Karnataka during 27<sup>th</sup>-31<sup>st</sup> July.

#### **&** 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 Odisha on 30<sup>th</sup> July.
- ✓ Isolated **heavy rainfall** very likely over Arunachal Pradesh on 28<sup>th</sup> & 29<sup>th</sup>; Assam & Meghalaya, Nagaland & Manipur on 28<sup>th</sup> & 30<sup>th</sup> July; Odisha during 27<sup>th</sup>-31<sup>st</sup>; Jharkhand on 30<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim during 27<sup>th</sup> 28<sup>th</sup> July.
- ✓ Hot & Humid conditions are likely to prevail over Assam & Tripura during next 2 days.





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#### **Main Weather Observations:**

- \* Rainfall distribution (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Gangetic West Bengal and Odisha,; at many places over Madhya Pradesh, Vidarbha and Konkan & Goa; a few places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Rajasthan, Chhattisgarh, Madhya Maharashtra, Kerala and Lakshadweep; at isolated places over Punjab, Haryana-Chandigarh, East Uttar Pradesh, Gujarat state, Bihar, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Telangana, Coastal Karnataka, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands.
- \* Heavy rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday): Heavy rainfall at isolated places over West Madhya Pradesh and Gangetic West Bengal.
- ❖ Significant amount of rainfall (from 0830 hours IST to 1730 hours IST of yesterday)(in cm): West Madhya Pradesh: Raisen 8, Hosangabad 5, Pachmarhi 4, Bhopal 3, Ujjain 2; Gangetic West Bengal: Sagar Island 7, Digha & Kalaikunda 4 each, Asansol, Panagarh, Bankura & Midnapore 3 each; Odisha: Koraput 6, Nabarangpur & Jajpur 5 each, Sambalpur & Sonepur 3 each; Kerala: Panathur 5, Kannur AMS 4; West Uttar Pradesh: Meerut & Bulandshahr 4 each; East Rajasthan: Bharatpur 4; Madhya Maharashtra: Mahabaleshwar 4, Pune (Lavasa) 3; Uttarakhand: Dehradun 3; East Madhya Pradesh: Nowgong 3, Chhindwara 2; Gujarat state: Tapi 3, Panchmahal, Mahisagar & Ahmedabad 2 each; Chhattisgarh: Durg 3, Rajnandgaon, Bilaspur & Raipur 2 each; Konkan & Goa: Kolhapur 3, Panjim 2.
- ❖ Minimum Temperature Departures (as on 26-07-2024): Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Himachal Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim; at a few places over Arunachal Pradesh and West Rajasthan; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Saurashtra & Kutch, Odisha, Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. These were below normal (-1.6°C to -3.0°C) at isolated places over Telangana, Vidarbha, and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.0°C was reported at Yeotmal (Vidarbha) over the plains of the country.
- \* Maximum Temperature Departures (as on 26-07-2024): Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Bihar; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; appreciably above normal (3.1°C to 5.0°C) at isolated places over Himachal Pradesh, Punjab, Uttar Pradesh and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at isolated places over West Rajasthan, Jharkhand, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. These were appreciably below normal (-3.1°C to -5.0°C) at a few places over Telangana; at isolated places over Odisha and Chhattisgarh; below normal (-1.6°C to -3.0°C) at isolated places over Madhya Pradesh, Vidarbha, Madhya Maharashtra, Marathwada and North Interior Karnataka and near normal over rest parts of the country. Yesterday, the highest Maximum Temperature of 40.1°C was reported at Bikaner (West Rajasthan) over the country.



# Meteorological Analysis (Based on 0530 hours IST)

- The Well Marked Low Pressure area over Gangetic West Bengal and adjoining northwest Bay of Bengal now lies over Gangetic West Bengal & adjoining north Odisha. The associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestwards with height. It is likely to move west-northwestwards during next 24 hours.
- The **Monsoon trough** at mean sea level now passes through Bikaner, Churu, Agra, Prayagraj, Ranchi to centre of Well Marked Low pressure area and extends upto 3.1 km above mean sea level.
- The **shear zone** roughly along 18°N over Indian region between 5.8 & 7.6 km above mean sea level tilting southwards with height persists.
- The **off-shore trough** at mean sea level along west coast from South Gujarat to north Kerala coasts persists.

# Weather Forecast for next 7 days (Upto 0830 hours IST of 03rd August, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- Thunderstorm/lightning likely at isolated places over south Peninsular India and Northeast India region 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 03rd August -05th 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.





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# Table-1

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

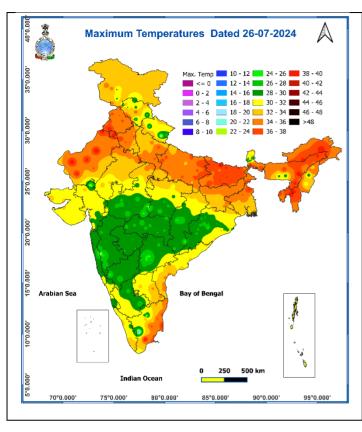
Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0



Fig. 1: Maximum Temperatures



Fig. 2: Departure of Maximum Temperatures



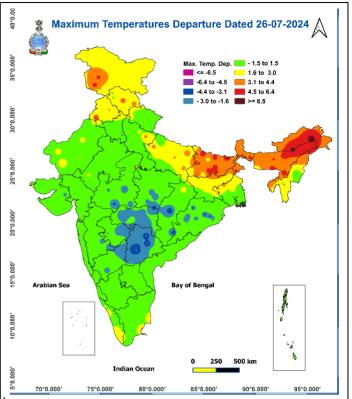
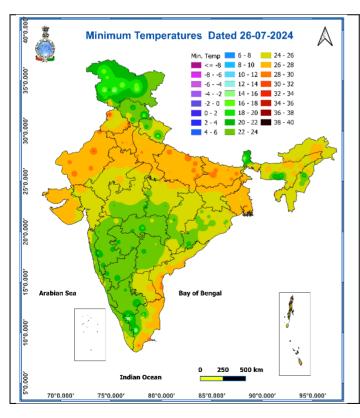
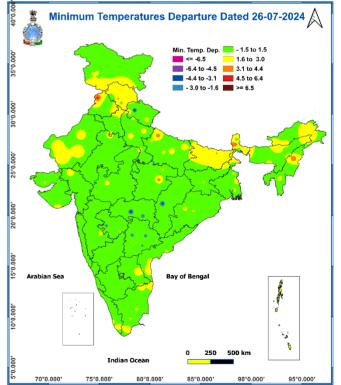


Fig. 3: Minimum Temperatures







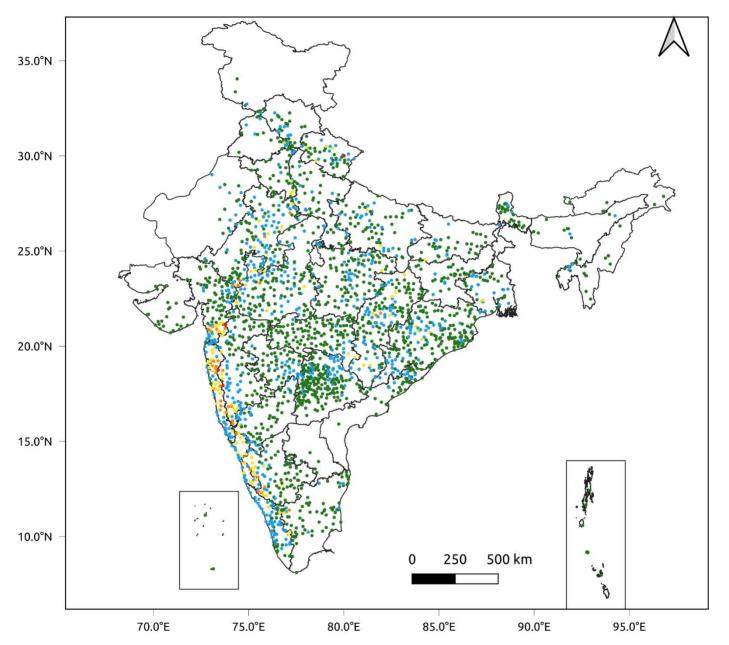








# 24 Hr cumulative rainfall recorded over different stations during 0830 IST of 25-7-2024 to 0830 IST of 26-7-2024

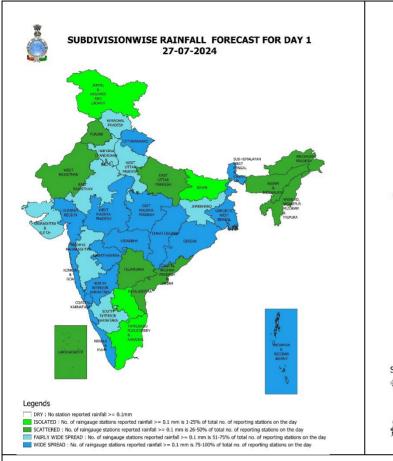


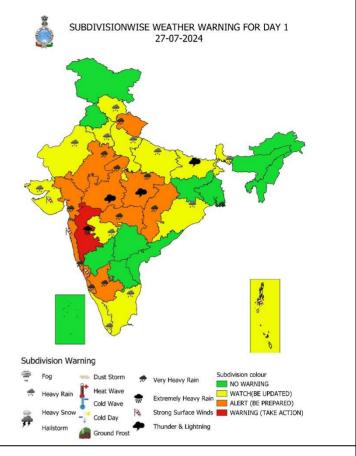
# Legends

- 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)



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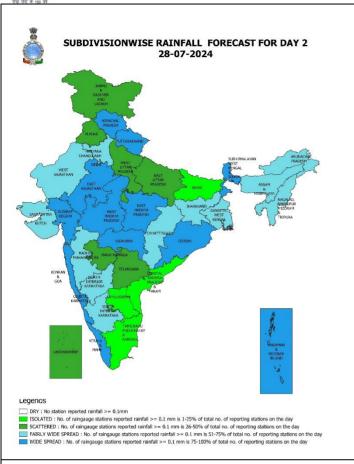


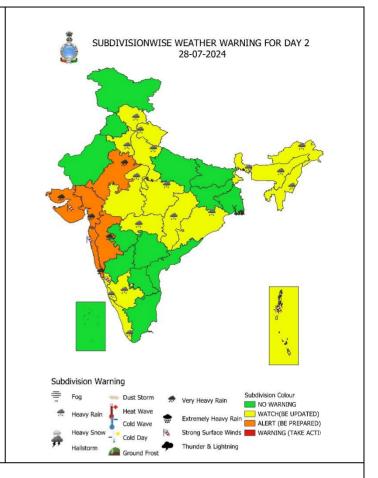
#### 27 July (Day 1):

- ❖ Heavy to very heavy rainfall with extremely heavy falls (≥ 20 cm) very likely at isolated places ghat areas of Madhya Maharashtra; Heavy to very heavy rainfall (≥ 12 cm) at isolated places over Uttarakhand, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa, Gujarat Region, Coastal and South Interior Karnataka; Heavy rainfall (≥ 7 cm) at isolated places over Haryana, East Uttar Pradesh, Himachal Pradesh, West Rajasthan, Odisha, Marathwada, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and North Interior Karnataka.
- ❖ Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Gujarat state; Thunderstorm accompanied with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana, Madhya Pradesh, Rajasthan, Uttar Pradesh, Vidarbha, Chhattisgarh and Bihar.
- \* Hot and humid weather very likely to prevail over Assam & Meghalaya and Tripura.
- ❖ Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over northeast and adjoining northwest Arabian sea, most parts of central Arabian sea, northern parts of southeast and many places of southwest Arabian sea, along and off Karnataka, gulf of Mannar, off Sri Lanka coast, over many parts of southwest & parts of southeast Bay of Bengal &most parts of central Bay of Benga and southern parts of northwest Bay of Bengal, north Andaman sea, along and off north Andhra Pradesh, off Odisha coasts. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail along and off Maharashtra, Konkan & Goa coast, over parts of central Bay of Bengal & southern parts of northwest Bay of Bengal. Squally weather with wind speed reaching 50 kmph to 60 kmph gusting to 70 kmph likely to prevail along and off Maharashtra, Konkan, goa, 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.



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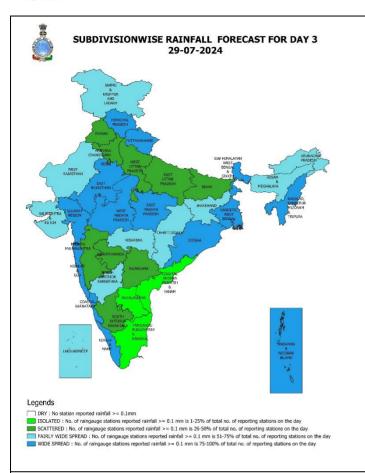


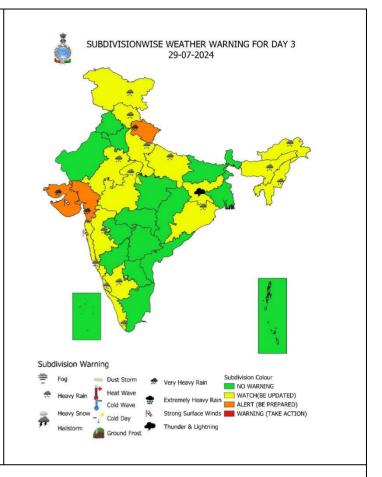
#### 28 July (Day 2):

- ❖ Heavy to very heavy rainfall (≥ 12 cm) very likely at isolated places over East Rajasthan, Konkan & Goa, Gujarat State; Heavy rainfall (≥ 7 cm) at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal and South Interior Karnataka.
- ❖ Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Gujarat state; Thunderstorm accompanied with lightning very likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana, Rajasthan, Uttar Pradesh, Vidarbha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur.
- ❖ Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph very likely to prevail over southern parts of northeast and adjoining northwest Arabian sea, most parts of east central & many parts of west central Arabian sea, northern parts of southeast and southwest Arabian sea, along and off Gujarat coast adjoining northeast Arabian sea, along and off Maharashtra, Konkan, goa, Karnataka coasts, off Sri Lanka coast, over many parts of south & most parts of central Bay of Bengal & southern parts of northwest Bay of Bengal, north Andaman sea, Odisha coasts. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over gulf of Mannar, parts of west central Bay of Bengal. 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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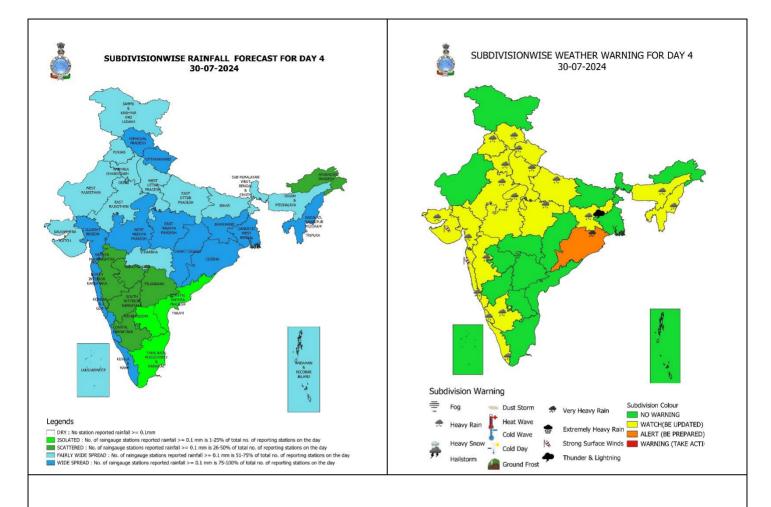


# 29 July (Day 3):

- ❖ Heavy to very heavy rainfall (≥ 12 cm) likely at isolated places over Uttarakhand and Gujarat State; Heavy rainfall (≥ 7 cm) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Kerala & Mahe, Coastal and South Interior Karnataka.
- Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Gujarat state; Thunderstorm accompanied with lightning likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan, Uttar Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur.
- ❖ Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over southern parts of north Arabian sea, most parts of east central & many parts of west central Arabian sea, northern parts of southeast and southwest Arabian sea, off Sri Lanka coast, over many parts of south & most parts of central Bay of Bengal & southern parts of northwest Bay of Bengal. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over gulf of Mannar, parts of west central Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over central Arabian sea & adjoining areas of southeast and 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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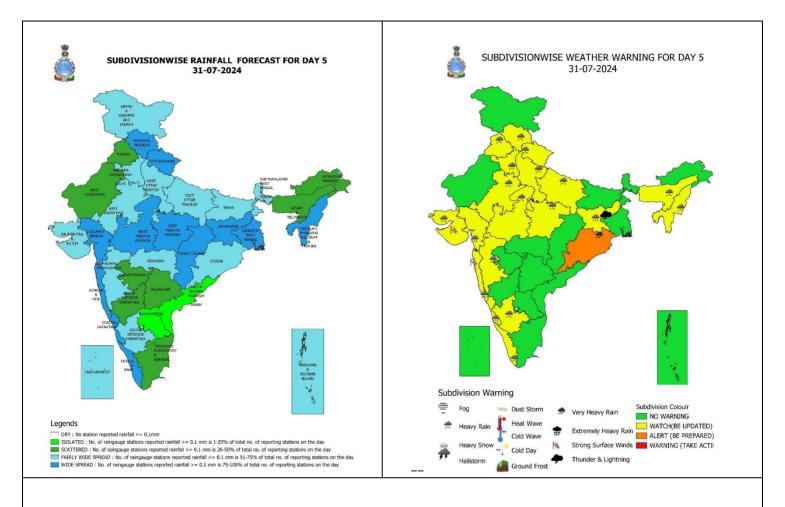


# 30 July (Day 4):

- ❖ Heavy to very heavy rainfall (≥ 12 cm) likely at isolated places over Odisha; Heavy rainfall (≥ 7 cm) at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Jharkhand, Konkan & Goa, Madhya Maharashtra, Assam & Meghalaya, Nagaland, Gujarat state, Kerala & Mahe, Coastal & South Interior Karnataka
- \* Thunderstorm accompanied with lightning likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- ❖ Squally weather with wind speed reaching 35 kmph to 45 kmph gusting to 55 kmph likely to prevail over southern parts of north Arabian sea, most parts of east central & many parts of west central Arabian sea, northern parts of southeast and southwest Arabian sea, along & off north Gujarat coasts, off Sri Lanka coast, over northern parts of south Bay of Bengal, most parts of central & southern parts of northwest Bay of Bengal. Squally weather with wind speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over gulf of Mannar, parts of west central Bay of Bengal. Squally winds with speed reaching 45 kmph to 55 kmph gusting to 65 kmph likely to prevail over central Arabian sea & adjoining areas of southeast and 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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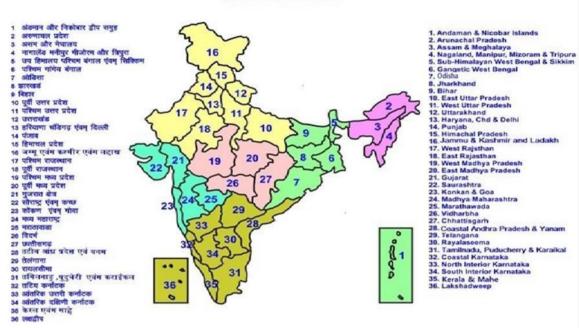
# 31 July (Day 5):

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









### 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 Widespred (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





#### LEGENDS **Probabilistic Forecast** WARNING WARNING (TAKE ACTION) Probability of Occurrence (%) Terms < 25 ALERT ( BE PREPARED) Likely WATCH (BE UPDATED) Very Likely Most Likely > 75 Heavy: 64.5 to 115.5 mm/cm \* Very Heavy: 115.6 to 204.4 mm/cm\* Rain/ Snow Extremely Heavy: > 204.4 mm/cm When maximum temperature of a station reaches ≥40° C for plains and ≥30° 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 ≥6.5° C (b). Based on Actual maximum temperature **Heat Wave** Heat Wave: When actual maximum temperature ≥45°C. Severe Heat Wave: When actual maximum temperature ≥47°C (c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C When maximum temperature remains 40°C + Warm Night Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C Severe Warm Night: When minimum temperature departure >6.4 °C. When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C (b) Based on actual Minimum Temperature (for Plains only) **Cold Wave** Cold Wave: When Minimum Temperature is ≤ 4.0 °C Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C (c) For Coastal Stations When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C **Cold Day** Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Fog: When the visibility between 500-200 metres 0 Dense Fog: when the visibility between 50-200 metres Fog Very Dense Fog: when the visibility < 50 metres Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) 44 Thunderstorm An ensemble of particles of dust or sand energetically lifted to great heights by a strong and **Dust/Sand** turbulent wind. Storm Ice deposits on ground Air temperature ≤4°C ( over Plains) Frost A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph 4 Severe: Wind speed 62-87 kmph Squall Very Severe: Wind speed >87 kmph 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 Sea State Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots) 9 Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) Cyclone Super Cyclone Strom: Wind speed >220 kmph (>119 knots)